

10/256,198

=> d his

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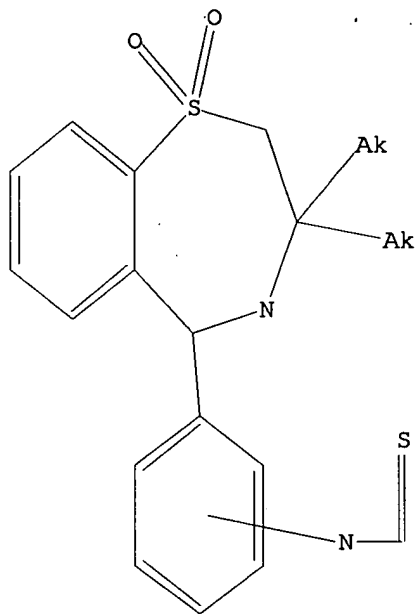
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L4 2 S L3

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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> d ibib abs hitstr total

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:979630 CAPLUS

DOCUMENT NUMBER: 143:286456

TITLE: Preparation of benzothiazepine and benzothiepine compounds for prevention and treatment of hyperlipemia

INVENTOR(S): Sasahara, Takehiko; Mohri, Mitsunobu; Kasahara, Kenichi

PATENT ASSIGNEE(S): Asahi Kasei Pharma Corporation, Japan

SOURCE: PCT Int. Appl., 551 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082874	A1	20050909	WO 2005-JP3686	20050225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:

JP 2004-128992

A 20040227

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Benzothiazepine or benzothiepine compds. represented by the following general formula (I) which have a thioamide bond and a quaternary ammonium substituent [R1a, R2a = C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl; ma = an integer of 0-4; Rx = halo, NO<sub>2</sub>, NH<sub>2</sub>, cyano, HO, CO<sub>2</sub>H, CONH<sub>2</sub>, SO<sub>3</sub>H, C1-5 alkylated NH<sub>2</sub>, each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl; a combination of (A1, A2, A3) = (CH<sub>2</sub>, NH, CH), (CH<sub>2</sub>, CH(OH), CH), (NH, CH(OH), CH), or (CH<sub>2</sub>, CH<sub>2</sub>, N); Y = NHC(S), NHC(S)NH, NHC(S)O; Za-(N+R5aR6aR7a)<sub>n</sub> = C2-10 alkyl or alkenyl substituted by n number of (N+R5aR6aR7a) with ≥1 CH<sub>2</sub> of Za optionally being replaced with (un)substituted phenylene or O; n = 1,2; N+R5aR6aR7a is selected from (1) R5a, R6a, R7a = each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl with ≥1 CH<sub>2</sub> optionally being replaced with phenylene, thienylene, furylene, cyclohexylene, cyclopentylene, O, S, CO<sub>2</sub>, NHCO, (un)substituted NH, or ammonium ion, (2) C4-9 mono- or bicyclic ring containing ammonium N atom with at least one of the ring C atoms being replaced with O, N, or S, and (3) (un)substituted pyridinium, quinolinium, or isoquinolinium; X- = a counter ion] are prepared These compds. are useful as remedies and preventives for hyperlipemia, arteriosclerosis, syndrome X, and other coronary artery diseases and as cholesterol-lowering agents. They are also useful as remedies and preventives for liver disorders accompanying bile stasis, in particular, primary biliary

cirrhosis, and primary sclerotic cholangitis, and obesity, fatty liver, and fatty hepatitis. Thus, 95 mg 1-(4-isocyanatobenzyl)-1-azoniabicyclo[2.2.2]octane bromide (preparation given) was added to a solution of

116 mg 5-(3-aminophenyl)-3,3-dibutyl-7-dimethylamino-4-hydroxy-2,3,4,5-tetrahydro-1-benzothiepin-1,1-dioxide in 3 mL CHCl<sub>3</sub> and stirred at 50° for 2 h to give 190 mg -2,3,4,5-tetrahydro-1-benzothiepin-1,1-dioxide derivative (II). II at 0.3 mg/kg twice a day for 5 days lowered a total blood level of LDL and VLDL by 49% in rats on 5 day diet of a feed containing 0.5% cholesterol and 0.5% bile acid.

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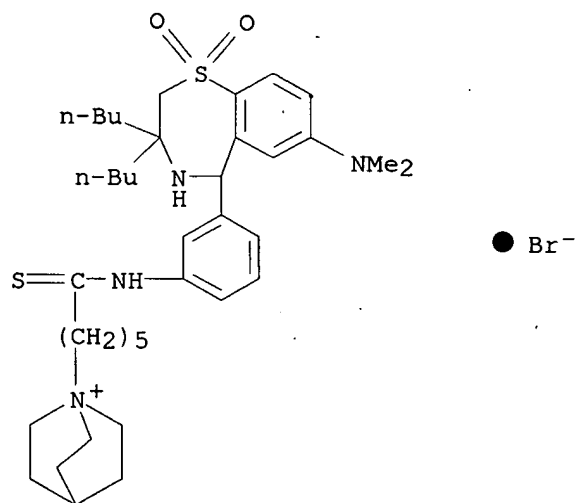
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)

(preparation of benzothiazepine and benzothiepine compds. for prevention and  
 treatment of hyperlipemia and lowering cholesterol)

RN 670276-97-8 CAPLUS

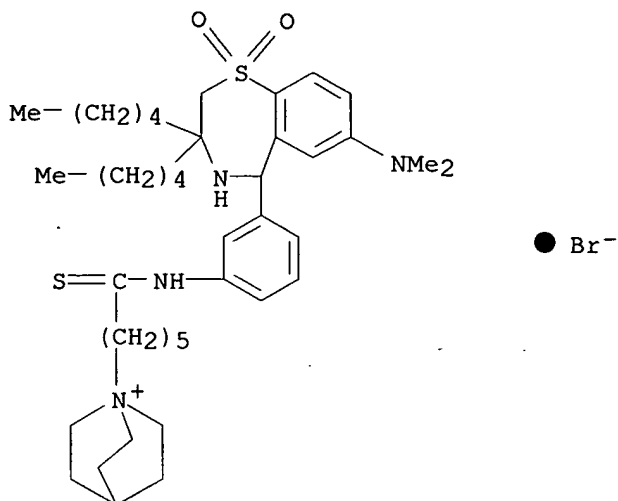
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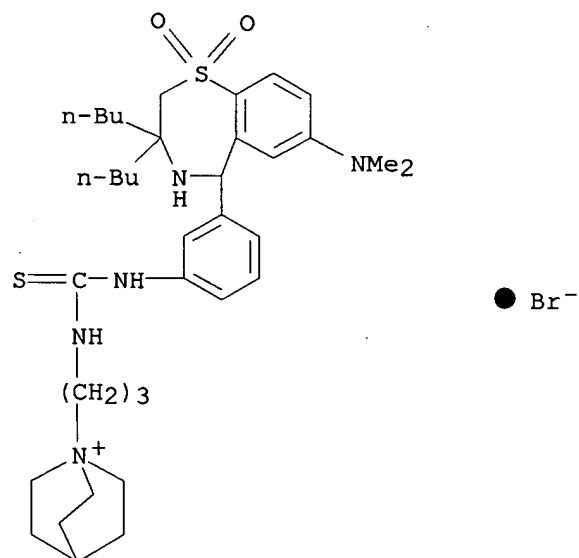
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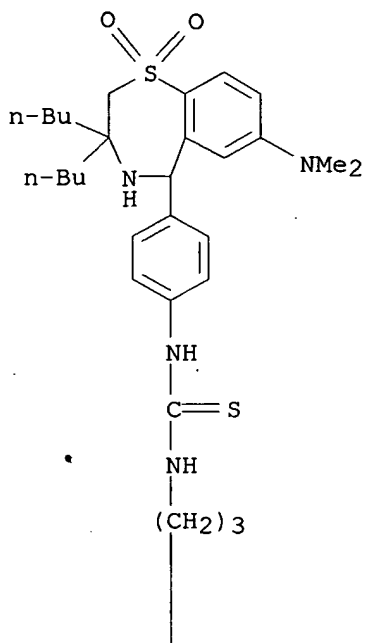
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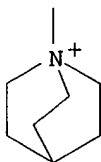
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PAGE 2-A

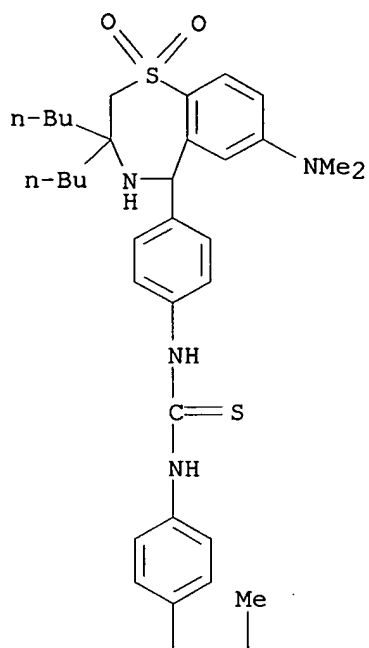


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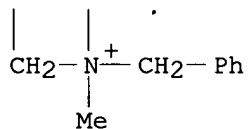
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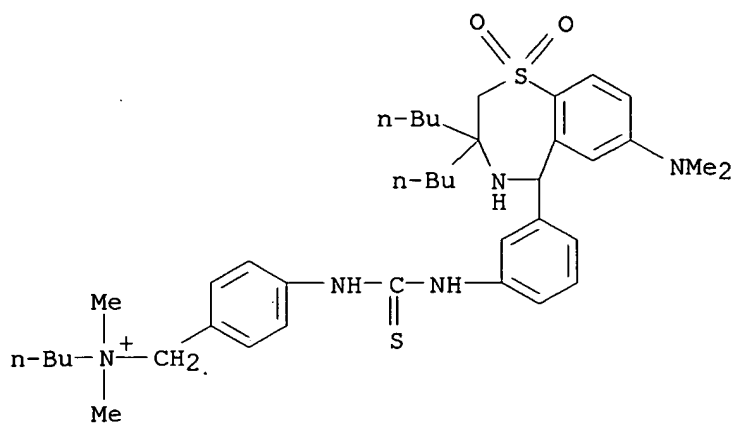
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PAGE 2-A



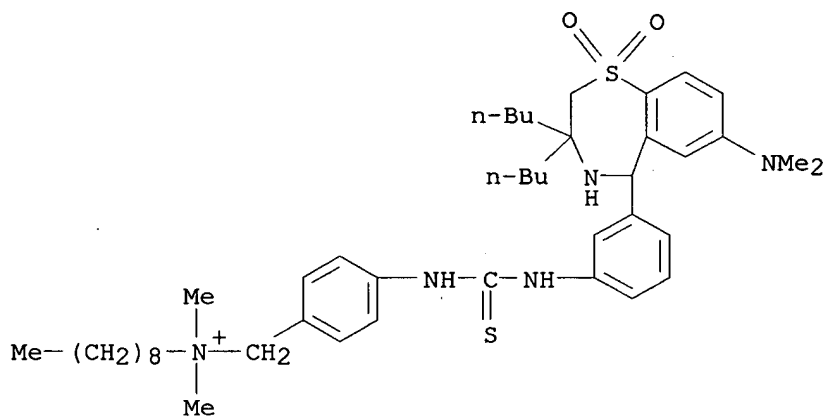
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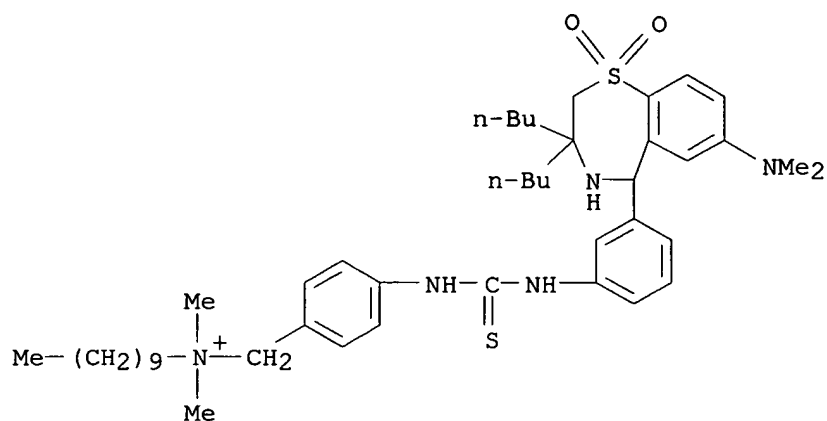


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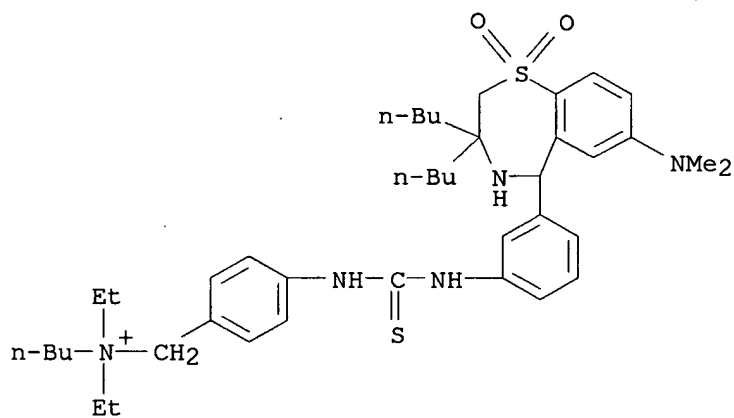
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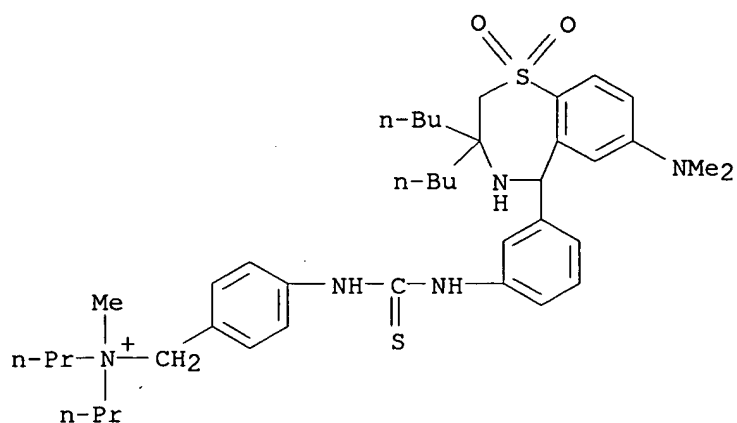
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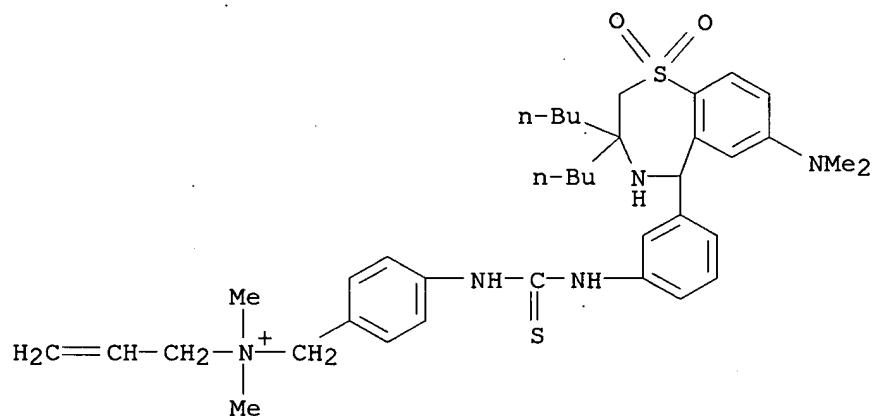
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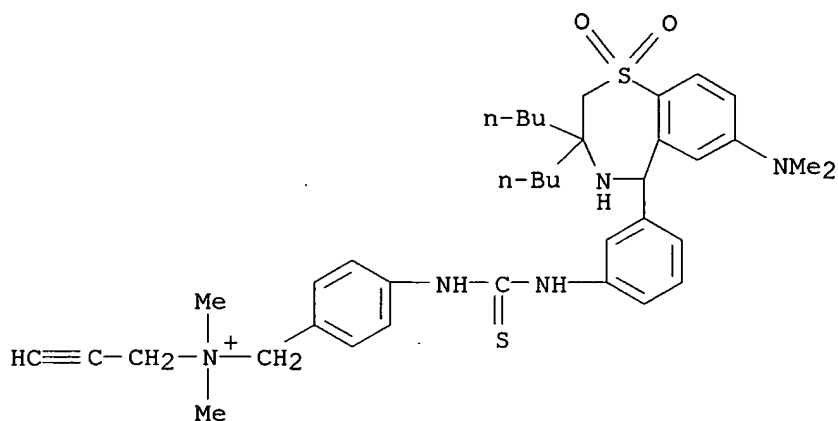
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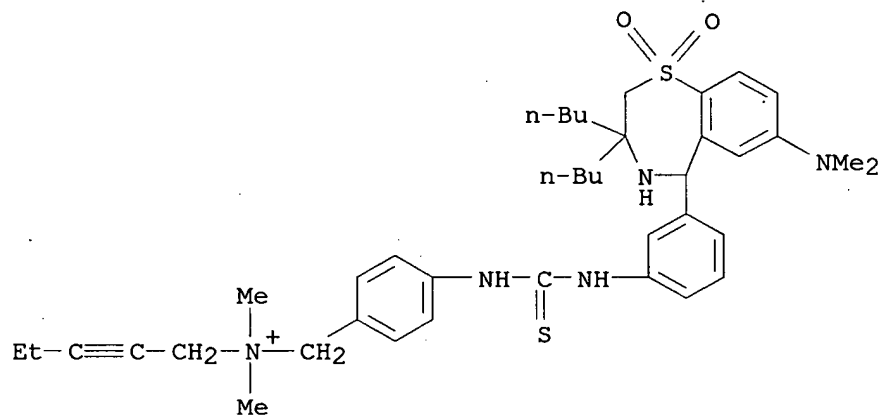
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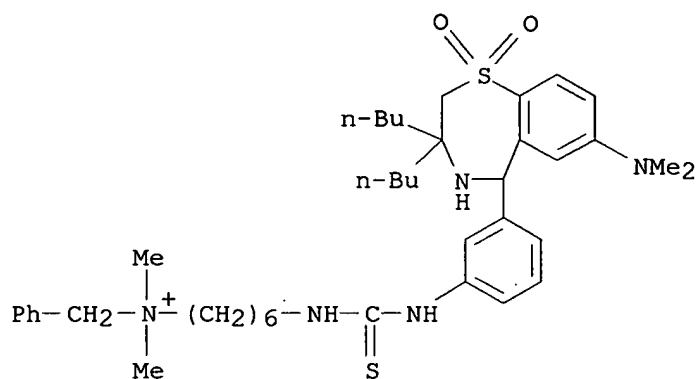
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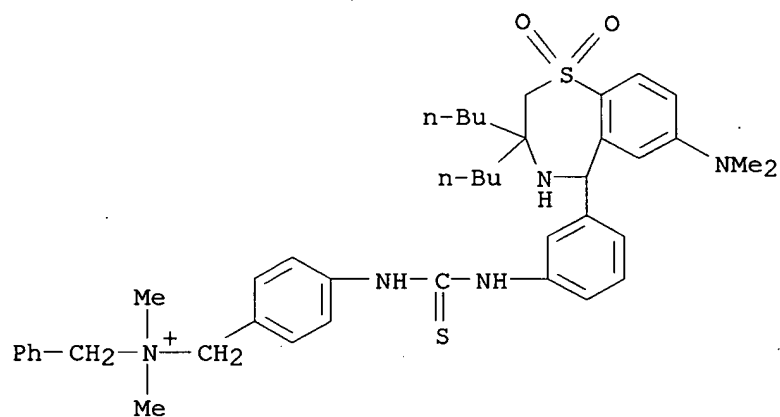
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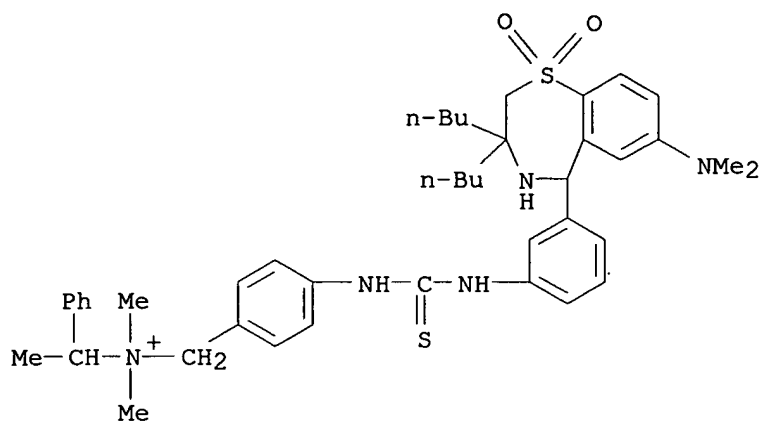
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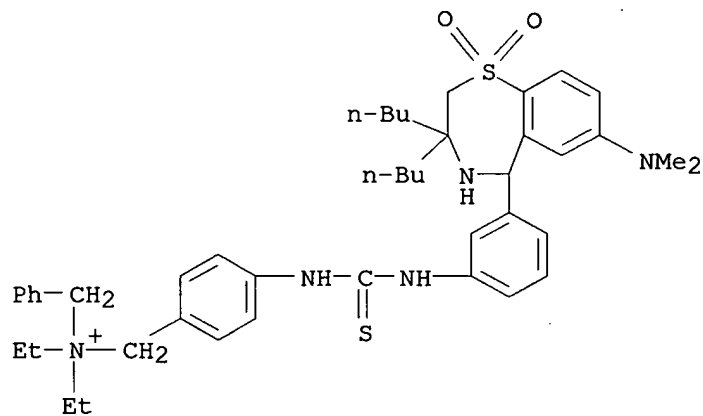
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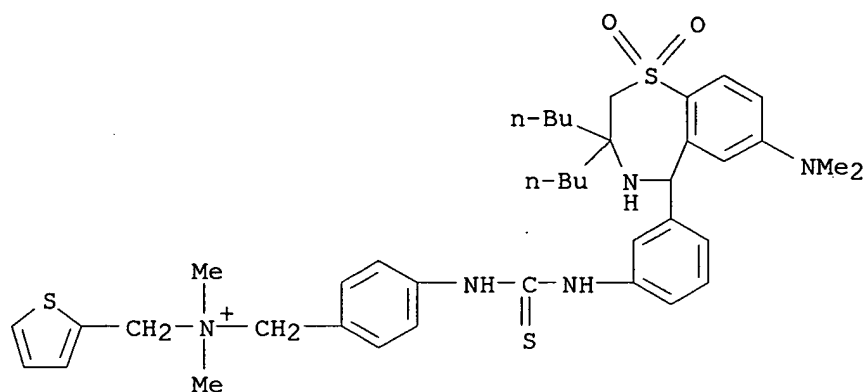
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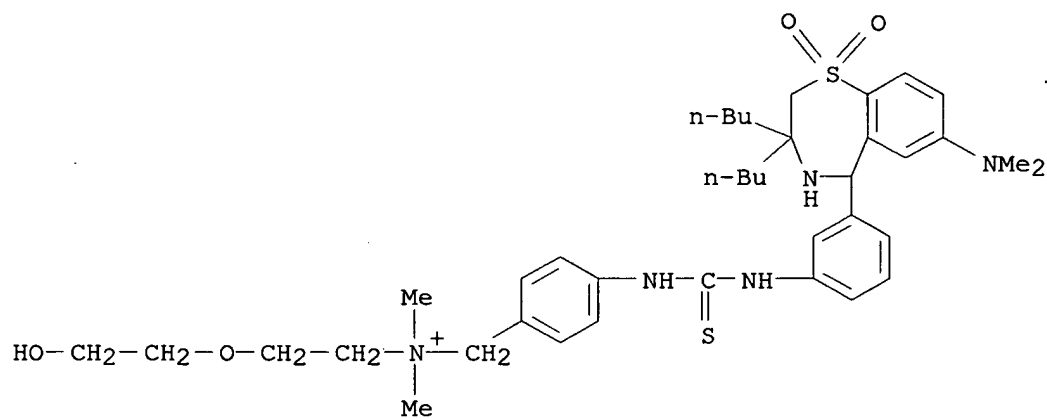
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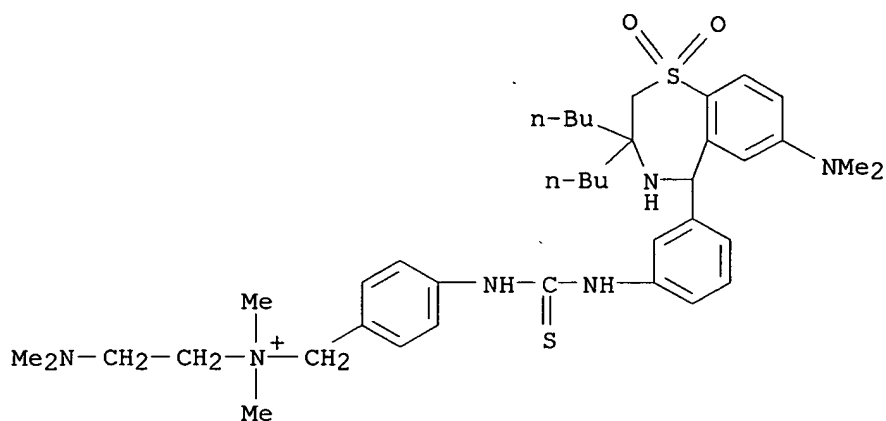
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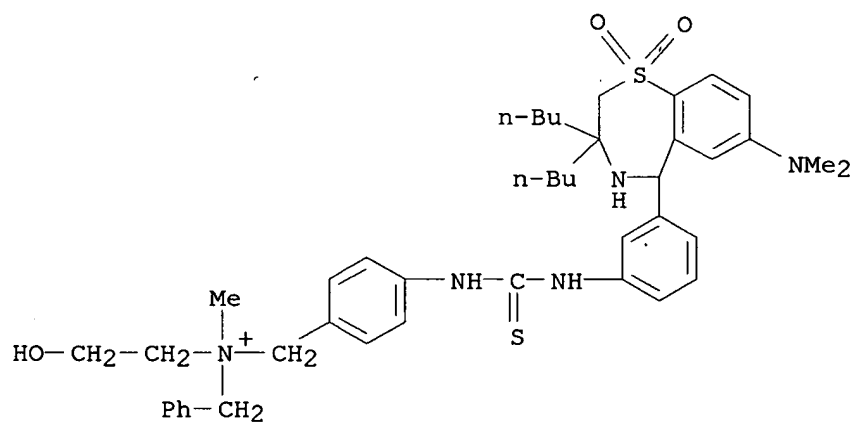
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● Br<sup>-</sup>

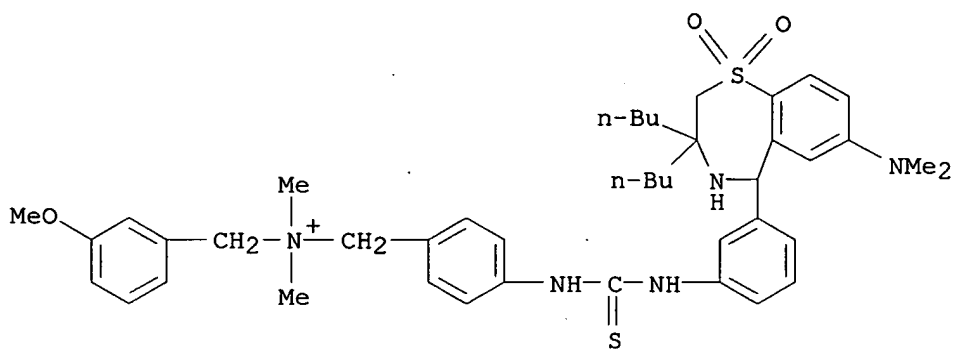
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CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-(2-hydroxyethyl)-N-methyl-N-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

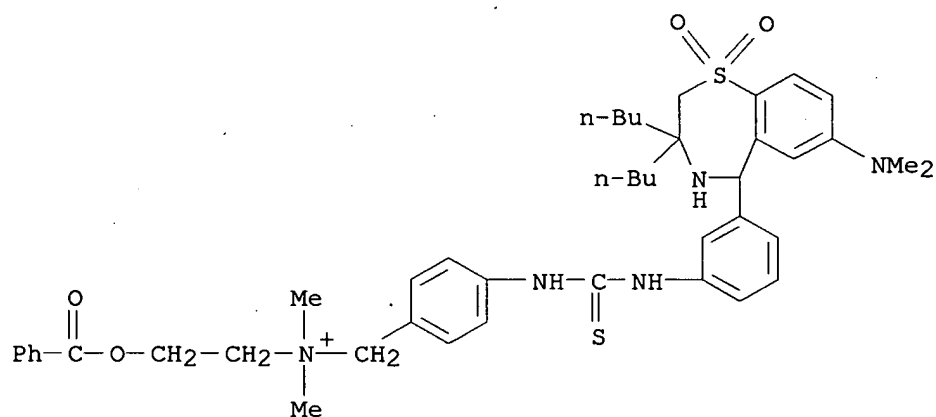
RN 670277-31-3 CAPLUS

CN Benzenemethanaminium, N-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-methoxy-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-32-4 CAPLUS

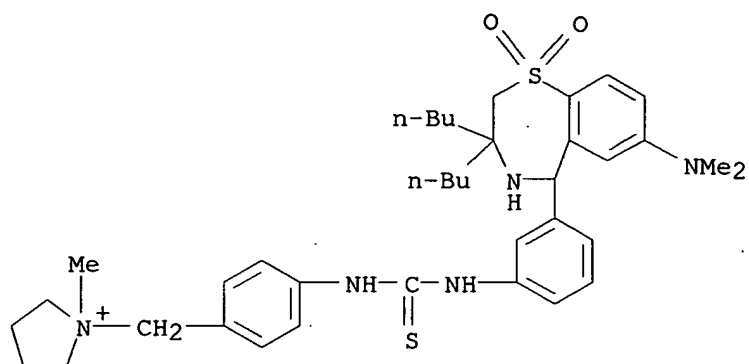
CN Benzenemethanaminium, N-[2-(benzoyloxy)ethyl]-4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-33-5 CAPLUS

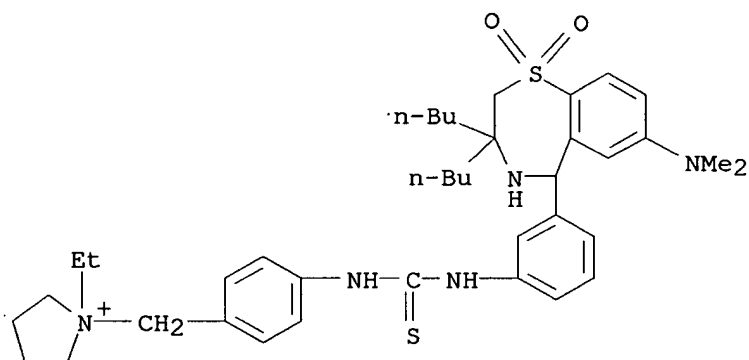
CN Pyrrolidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

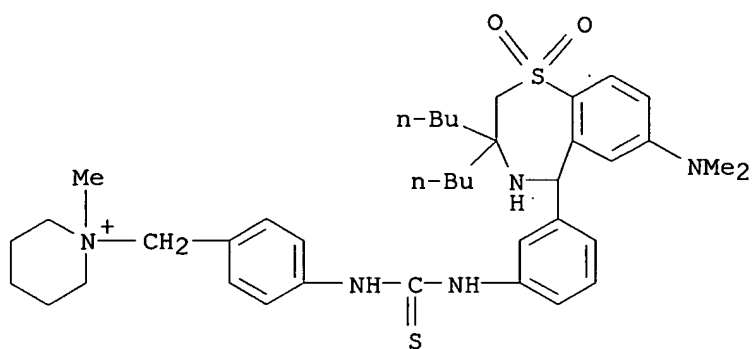
RN 670277-34-6 CAPLUS

CN Pyrrolidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

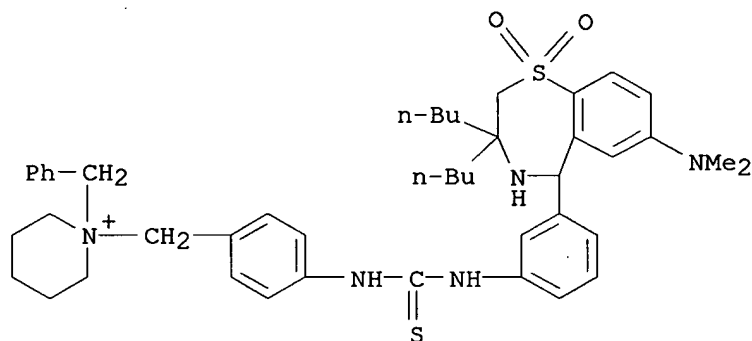
RN 670277-35-7 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

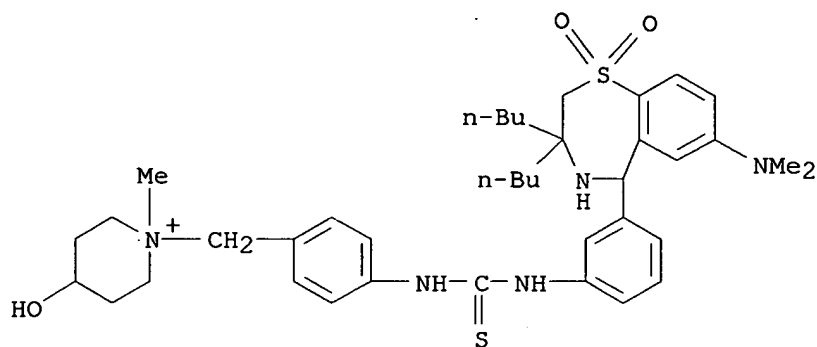
RN 670277-36-8 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

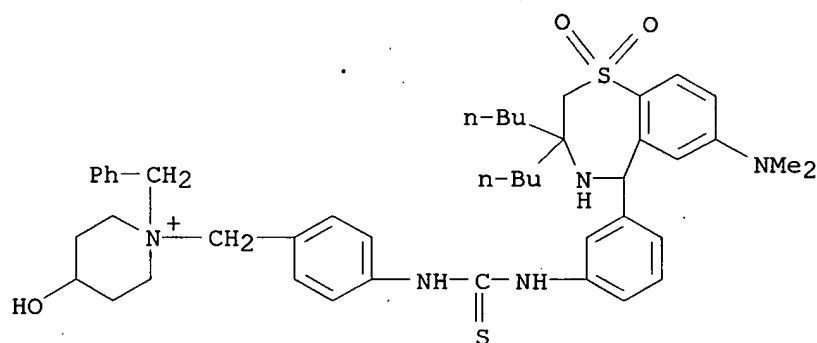
RN 670277-37-9 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-hydroxy-1-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

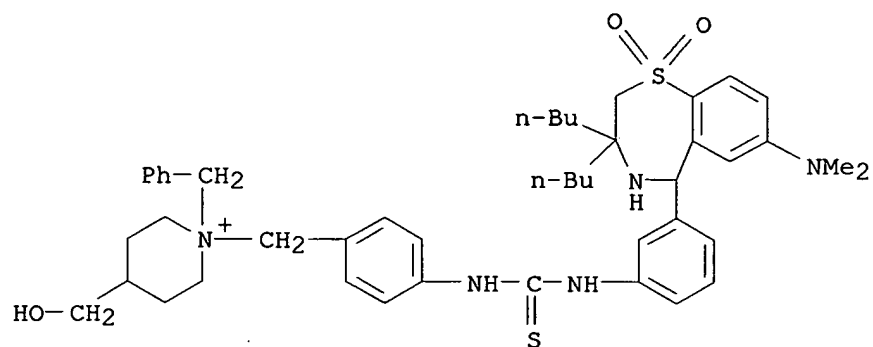
RN 670277-39-1 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-hydroxy-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

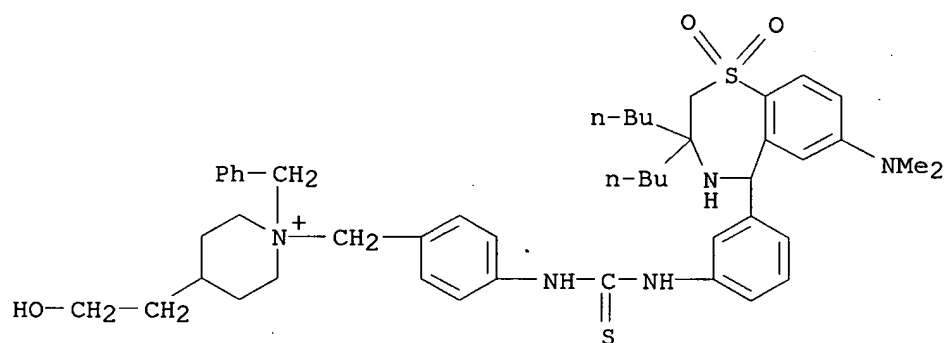
RN 670277-40-4 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(hydroxymethyl)-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

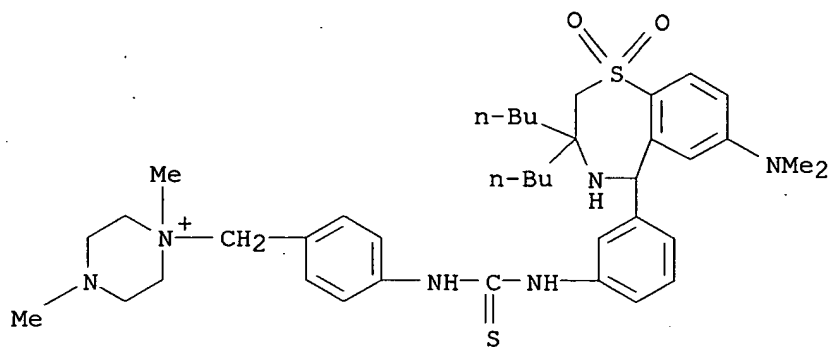
RN 670277-41-5 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(2-hydroxyethyl)-1-(phenylmethyl)-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

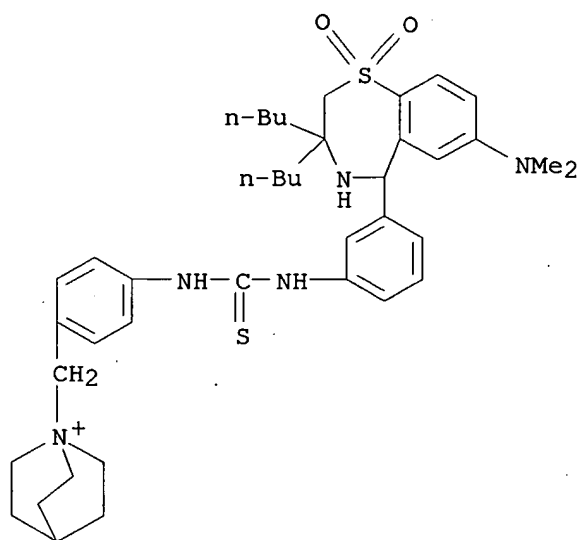
RN 670277-42-6 CAPLUS

CN Piperazinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1,4-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

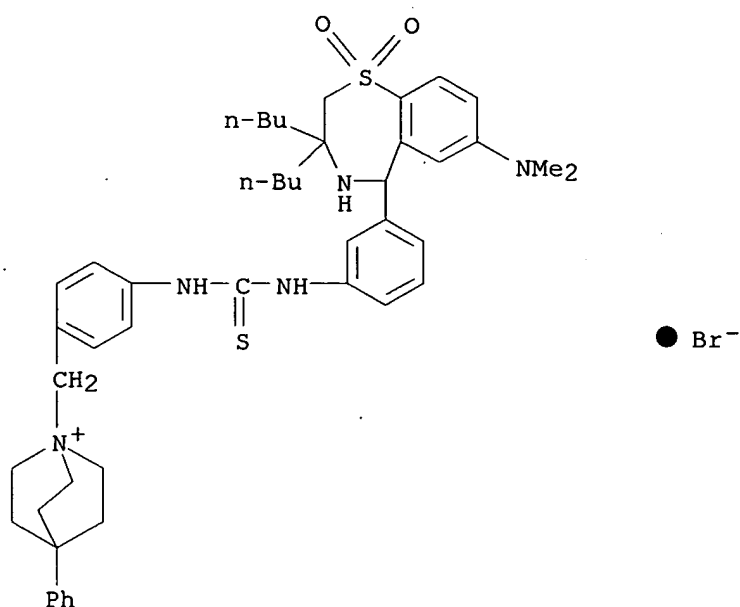
RN 670277-43-7 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

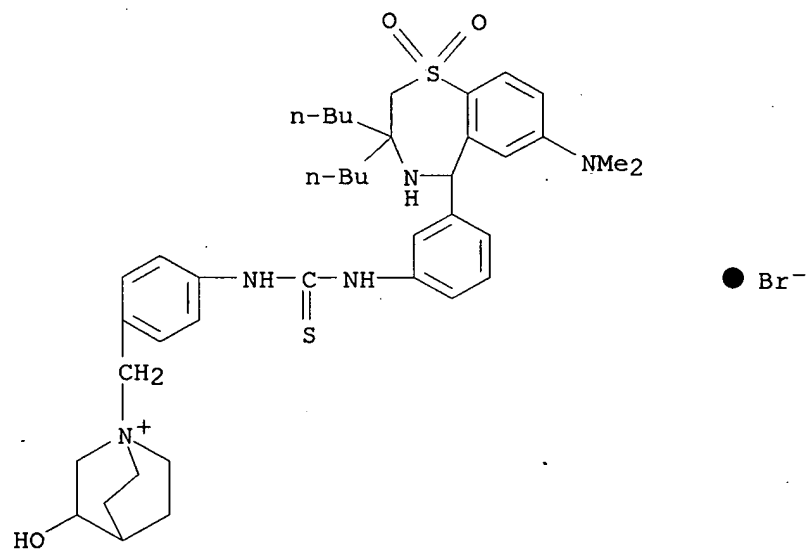
RN 670277-44-8 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)



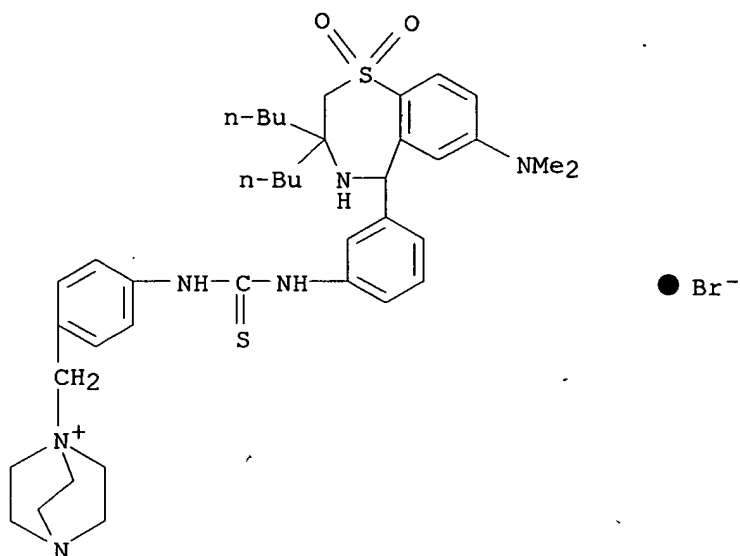
RN 670277-45-9 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-hydroxy-, bromide (9CI) (CA INDEX NAME)



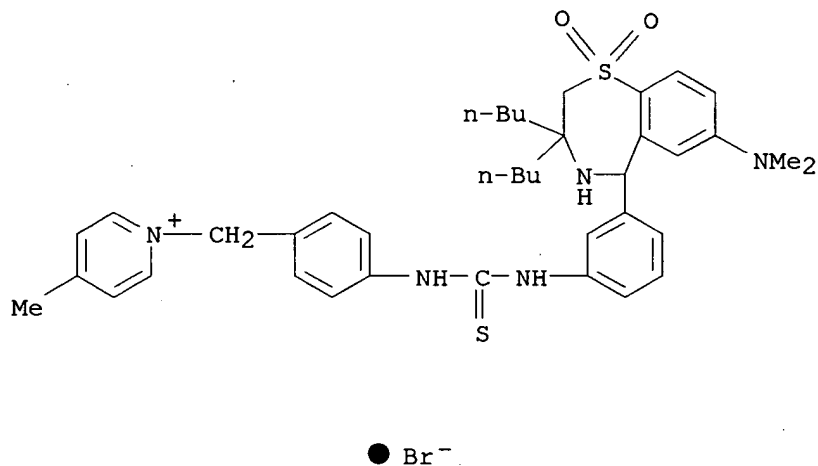
RN 670277-46-0 CAPLUS

CN 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



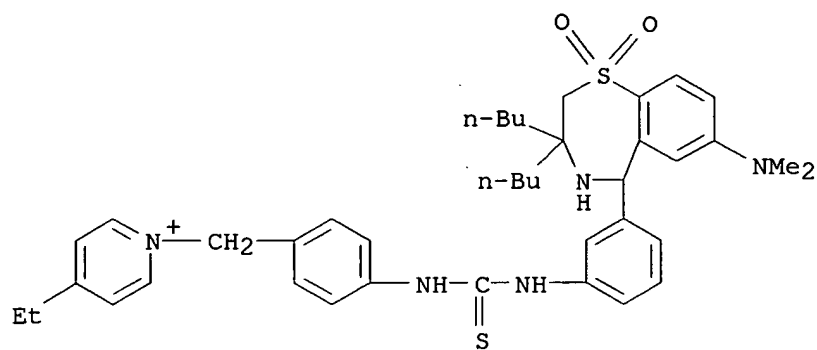
RN 670277-47-1 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-methyl-, bromide (9CI) (CA INDEX NAME)



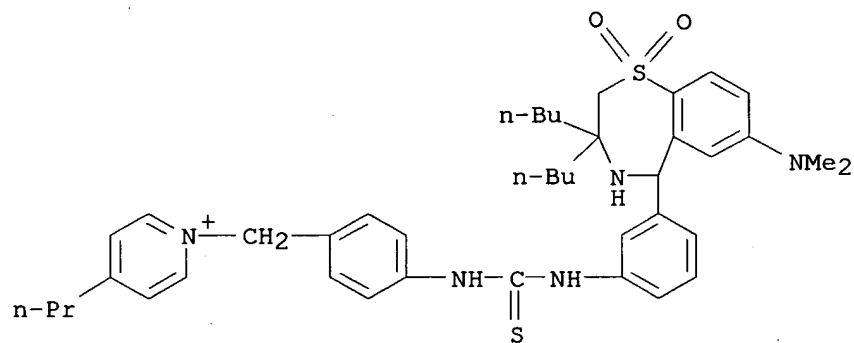
RN 670277-48-2 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-49-3 CAPLUS

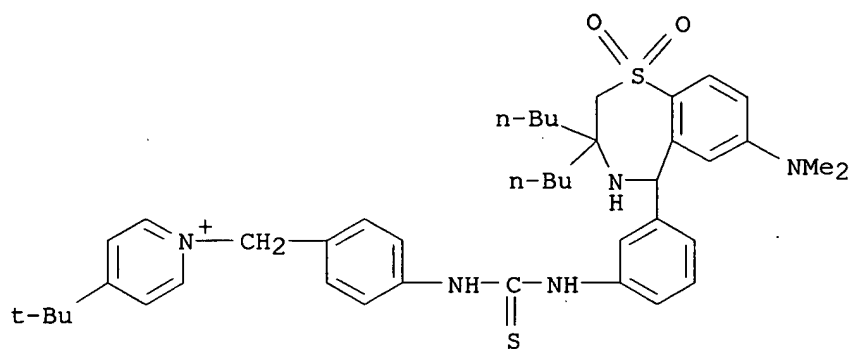
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-propyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-50-6 CAPLUS

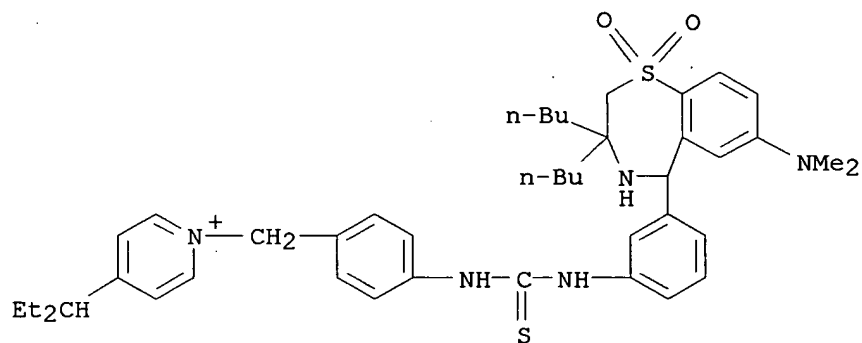
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

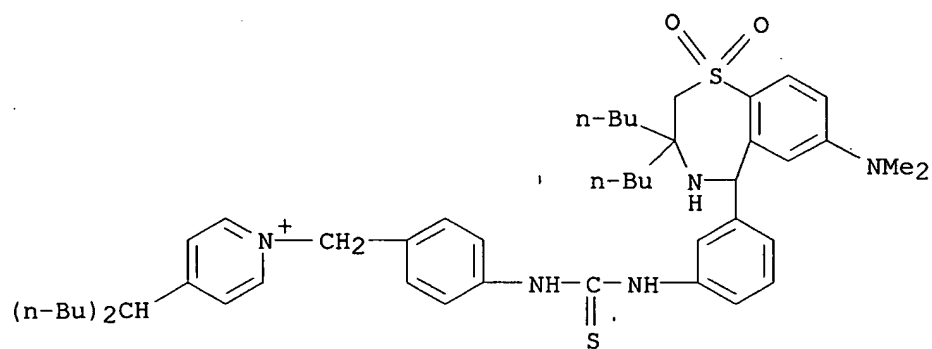
RN 670277-51-7 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(1-ethylpropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-52-8 CAPLUS

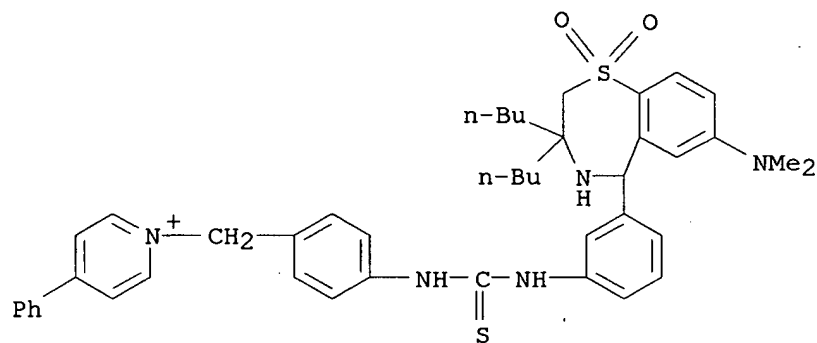
CN Pyridinium, 4-(1-butylpentyl)-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670277-53-9 CAPLUS

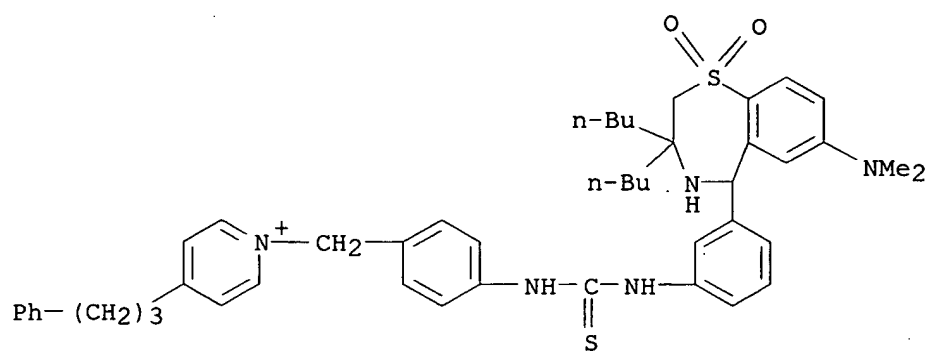
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

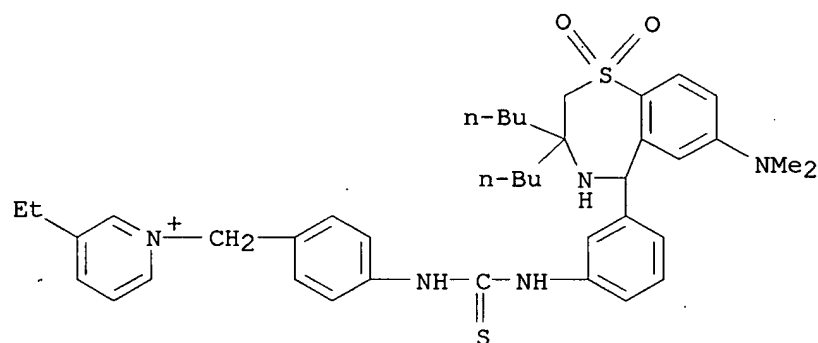
RN 670277-54-0 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(3-phenylpropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

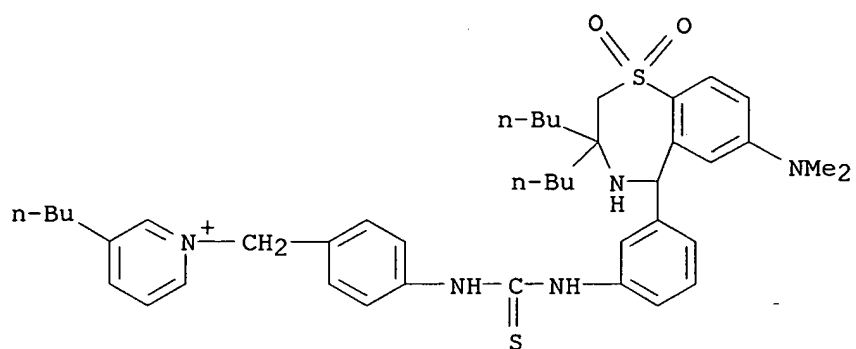
RN 670277-55-1 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

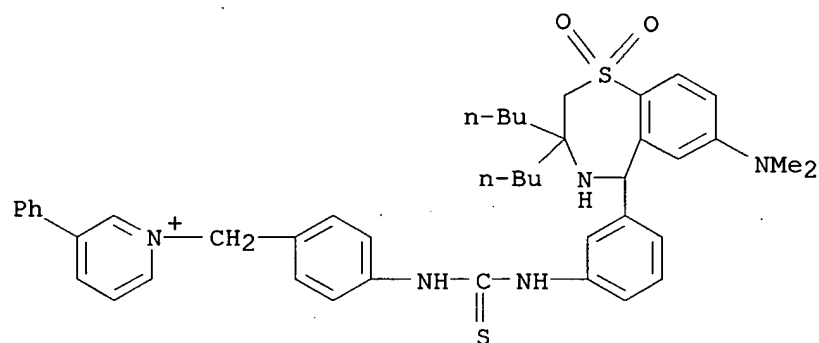
RN 670277-56-2 CAPLUS

CN Pyridinium, 3-butyl-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

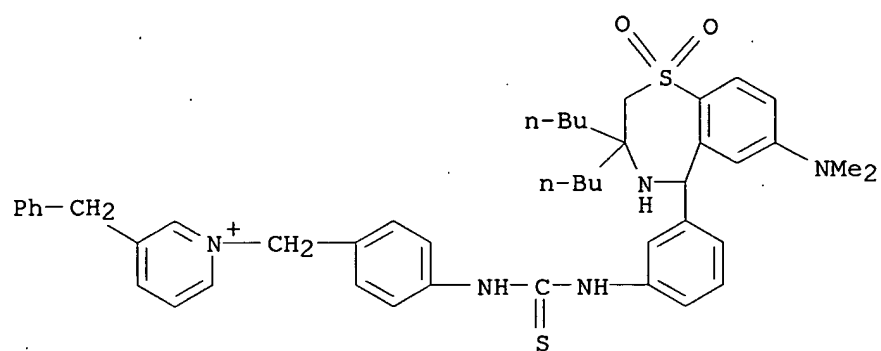
RN 670277-57-3 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-phenyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-58-4 CAPLUS

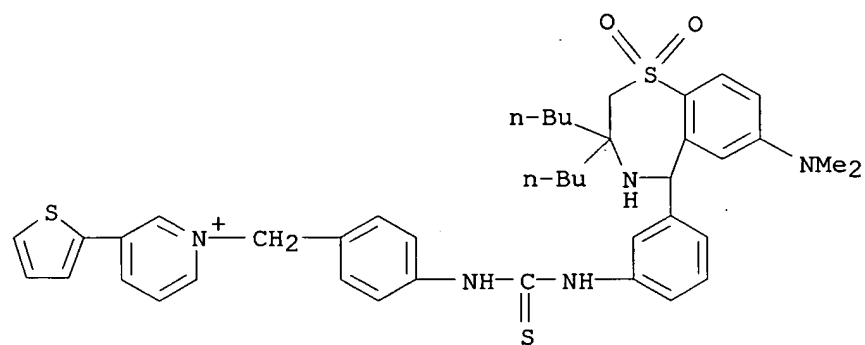
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670277-59-5 CAPLUS

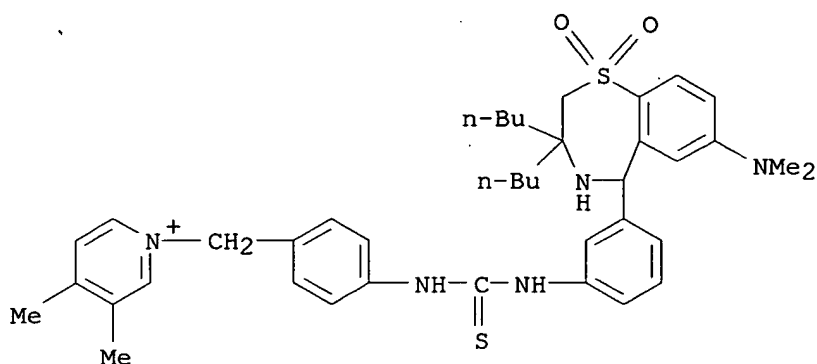
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-(2-thienyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670277-60-8 CAPLUS

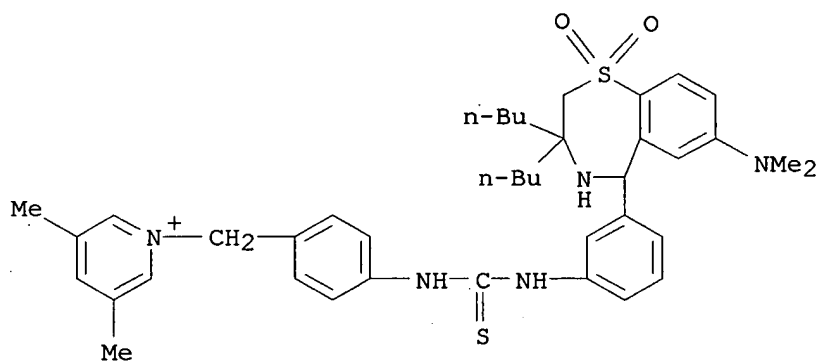
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3,4-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670277-61-9 CAPLUS

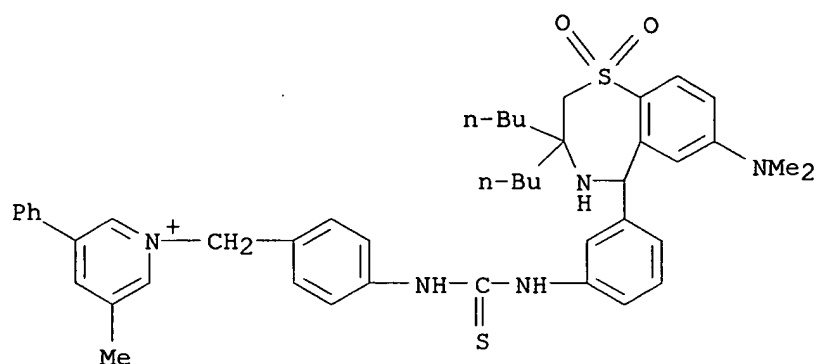
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3,5-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

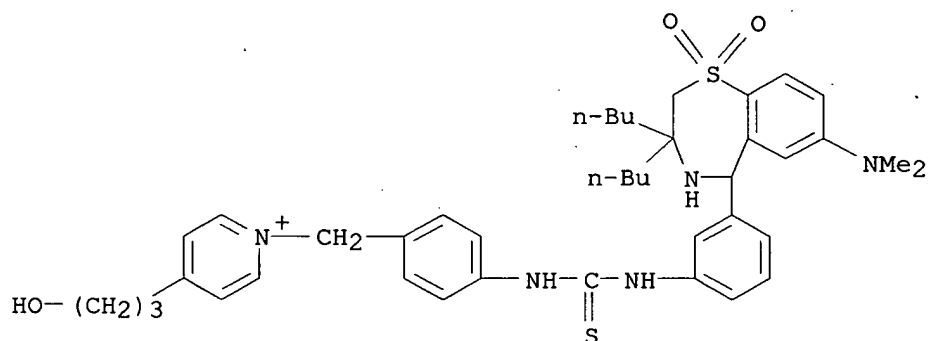
RN 670277-62-0 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-methyl-5-phenyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

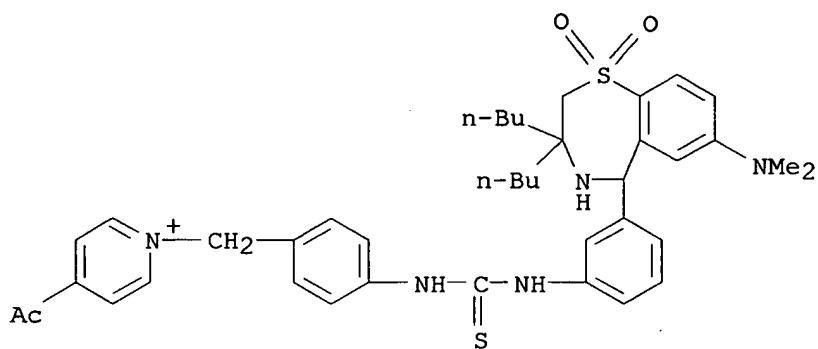
RN 670277-63-1 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(3-hydroxypropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-64-2 CAPLUS

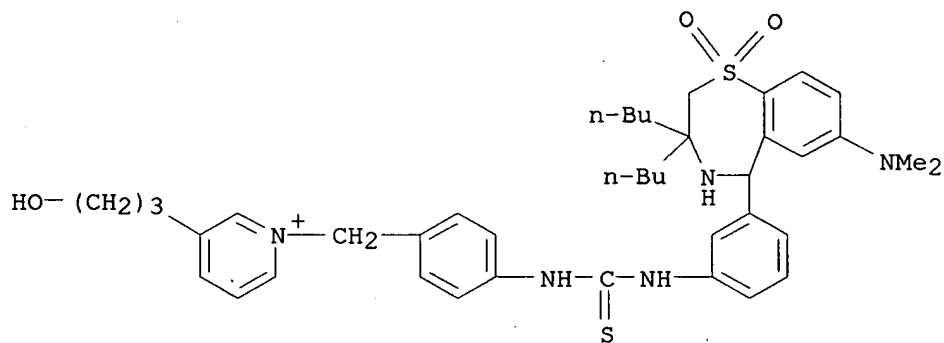
CN Pyridinium, 4-acetyl-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670277-65-3 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-(3-hydroxypropyl)-, bromide (9CI) (CA INDEX NAME)

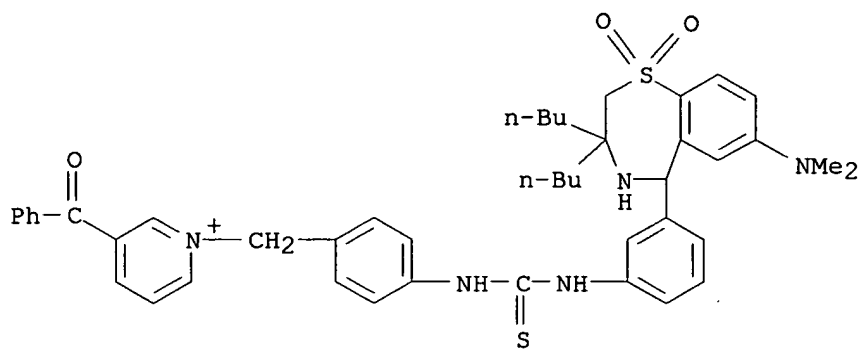


● Br<sup>-</sup>

RN 670277-66-4 CAPLUS

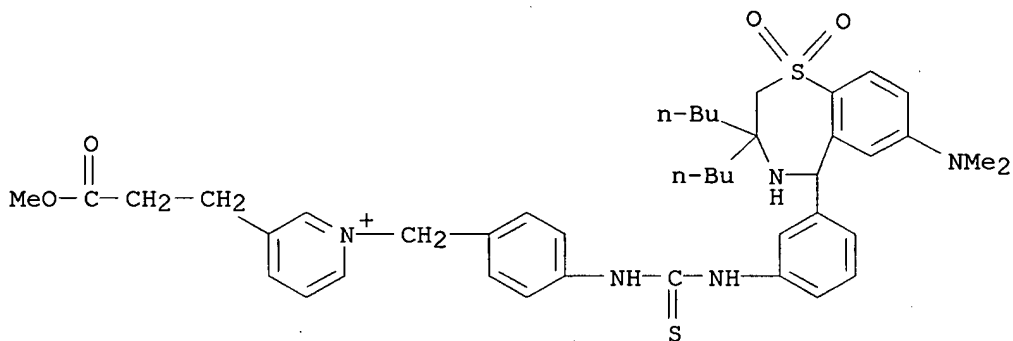
CN Pyridinium, 3-benzoyl-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

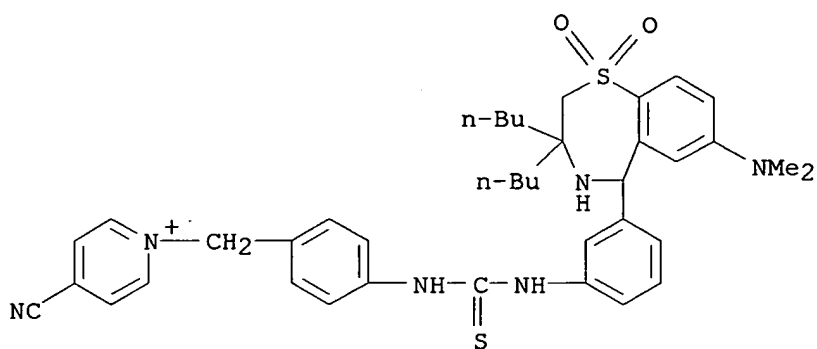
RN 670277-68-6 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-(3-methoxy-3-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-69-7 CAPLUS

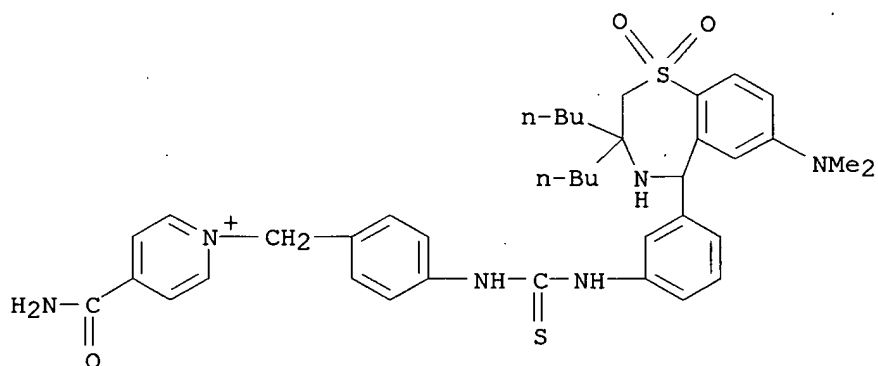
CN Pyridinium, 4-cyano-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670277-70-0 CAPLUS

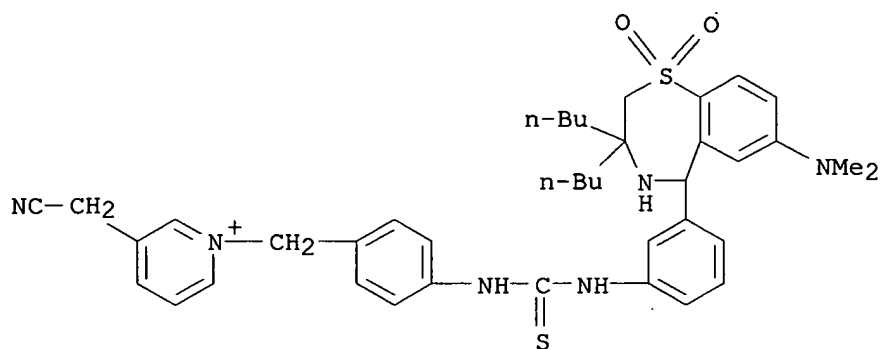
CN Pyridinium, 4-(aminocarbonyl)-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

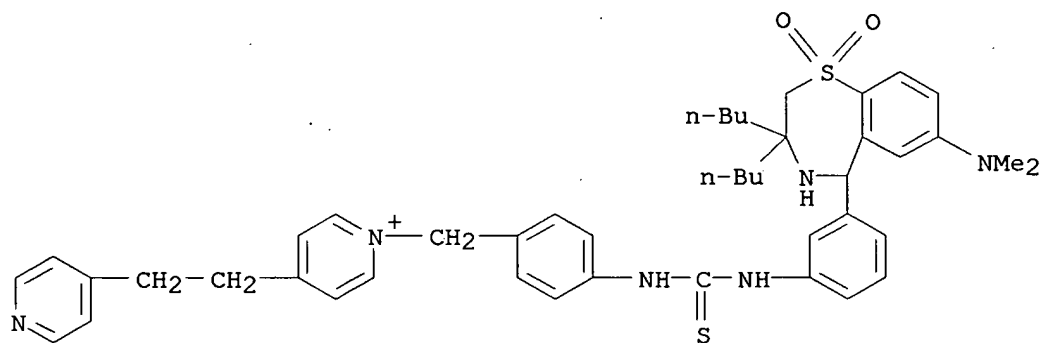
RN 670277-71-1 CAPLUS

CN Pyridinium, 3-(cyanomethyl)-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

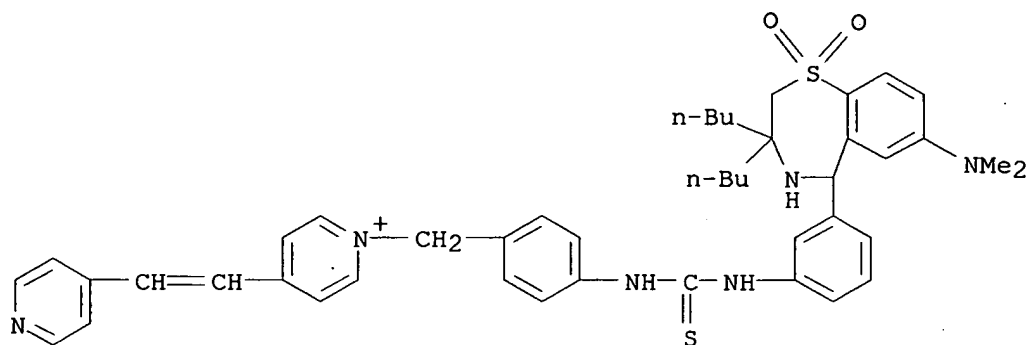
RN 670277-72-2 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-[2-(4-pyridinyl)ethyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

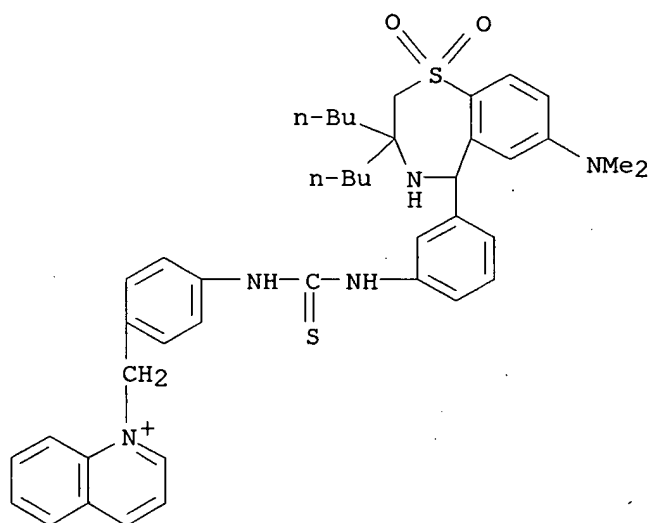
RN 670277-73-3 CAPLUS

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● Br<sup>-</sup>

RN 670277-74-4 CAPLUS

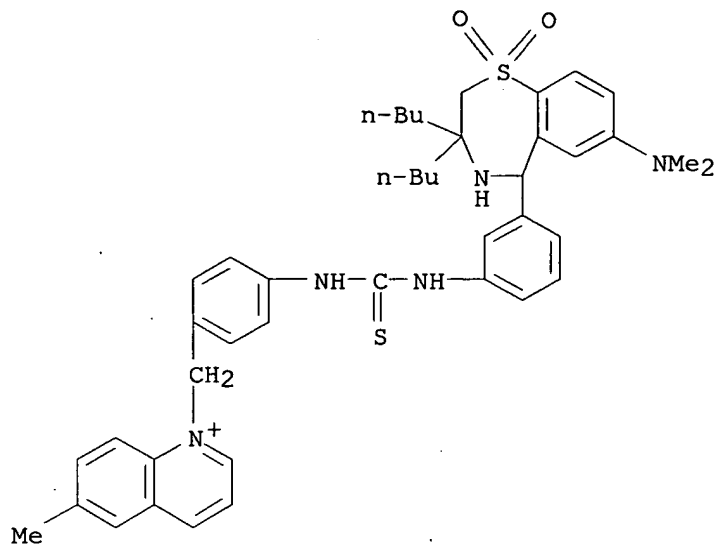
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● Br<sup>-</sup>

RN 670277-75-5 CAPLUS

CN Quinolinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-6-methyl-, bromide (9CI) (CA INDEX NAME)

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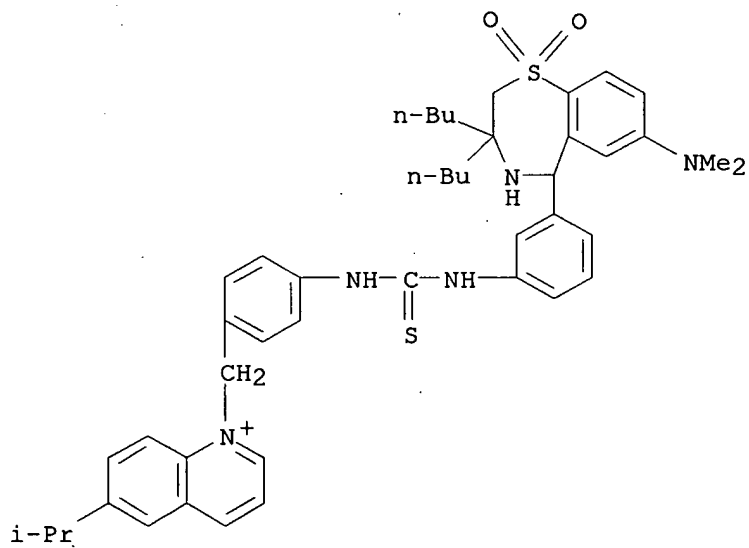
PAGE 2-A



RN 670277-76-6 CAPLUS

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PAGE 1-A



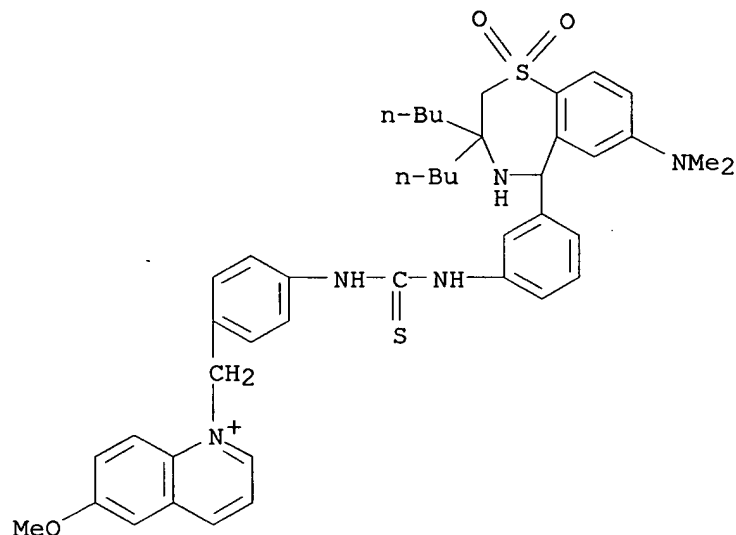
PAGE 2-A

● Br<sup>-</sup>

RN 670277-77-7 CAPLUS

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PAGE 1-A

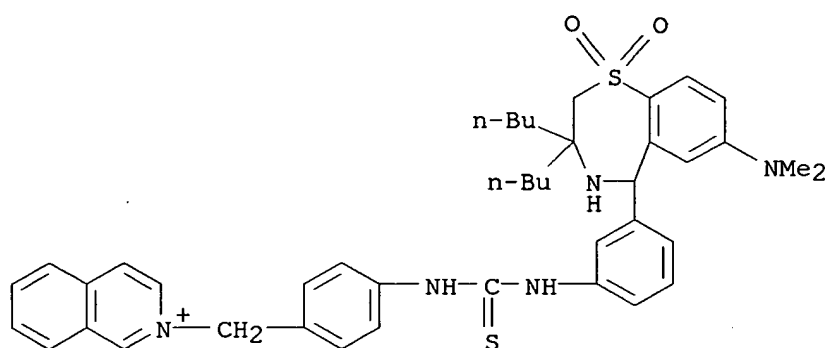


PAGE 2-A

● Br<sup>-</sup>

RN 670277-78-8 CAPLUS

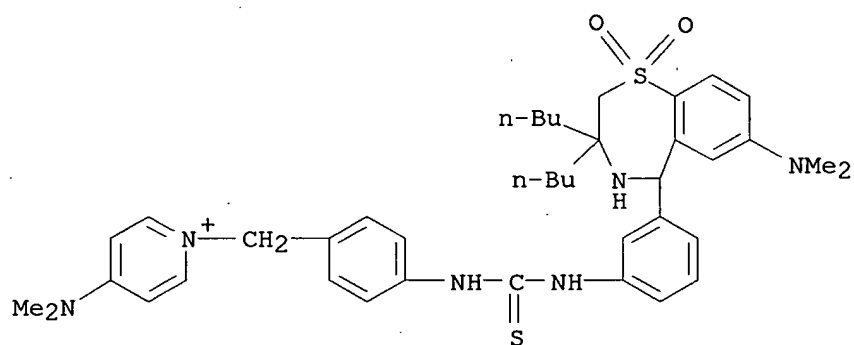
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● Br<sup>-</sup>

RN 670277-79-9 CAPLUS

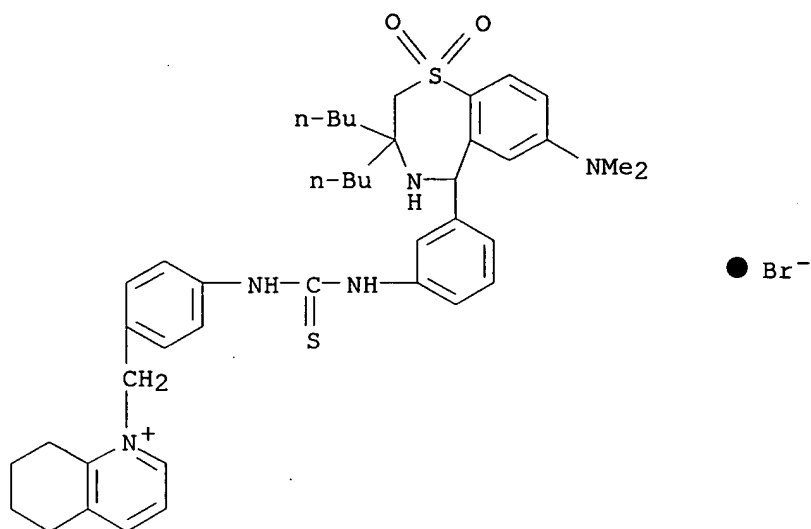
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(dimethylamino)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

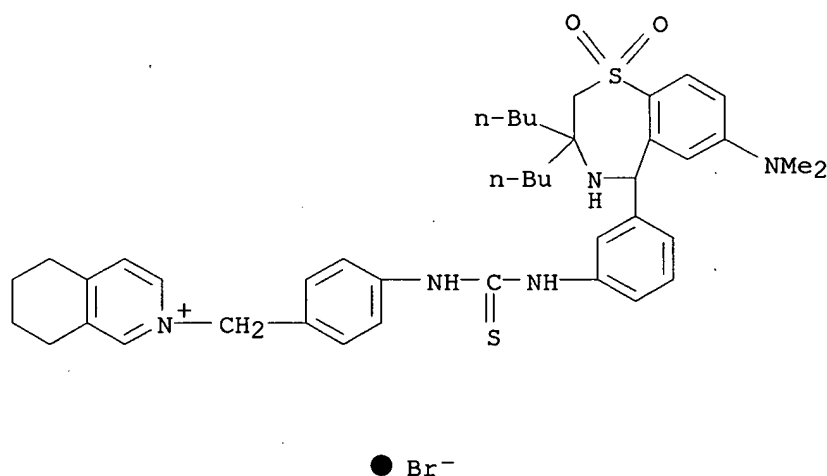
RN 670277-80-2 CAPLUS

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RN 670278-00-9 CAPLUS

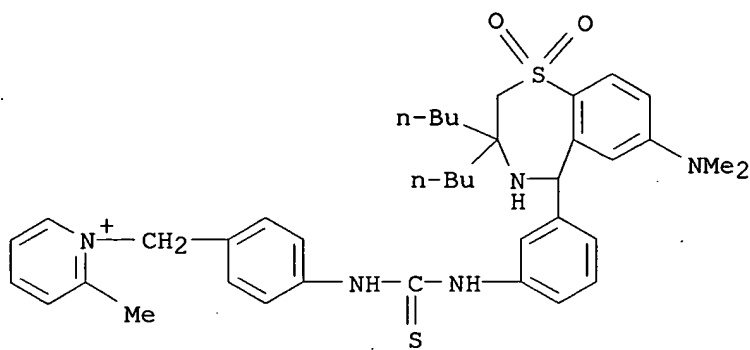
CN Isoquinolinium, 2-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-5,6,7,8-tetrahydro-, bromide (9CI) (CA INDEX NAME)



RN 670278-38-3 CAPLUS

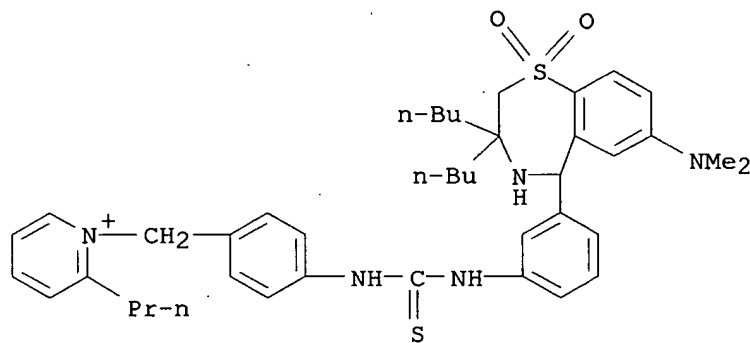
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● Br<sup>-</sup>

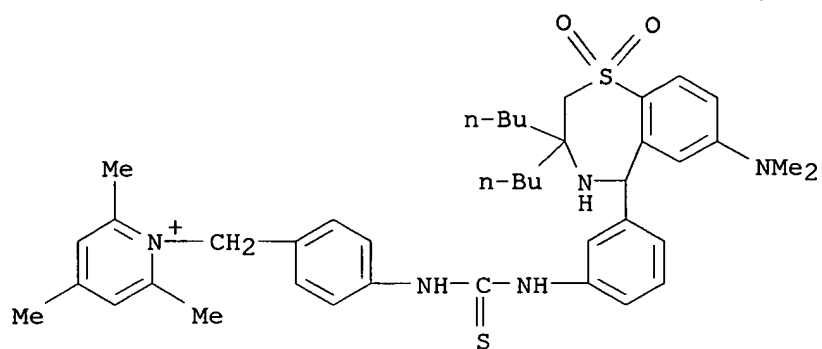
RN 670278-39-4 CAPLUS

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● Br<sup>-</sup>

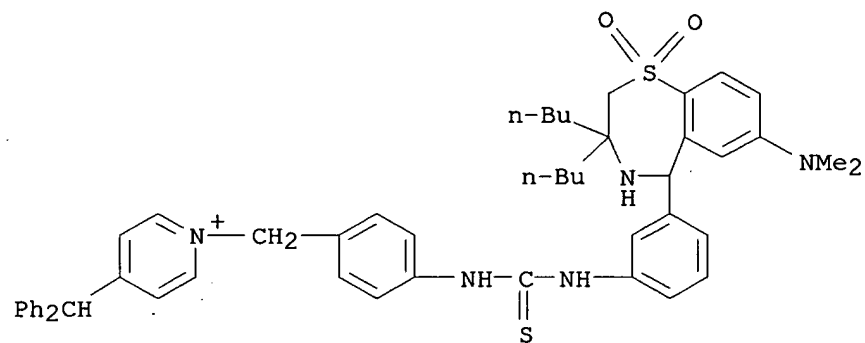
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● Br<sup>-</sup>

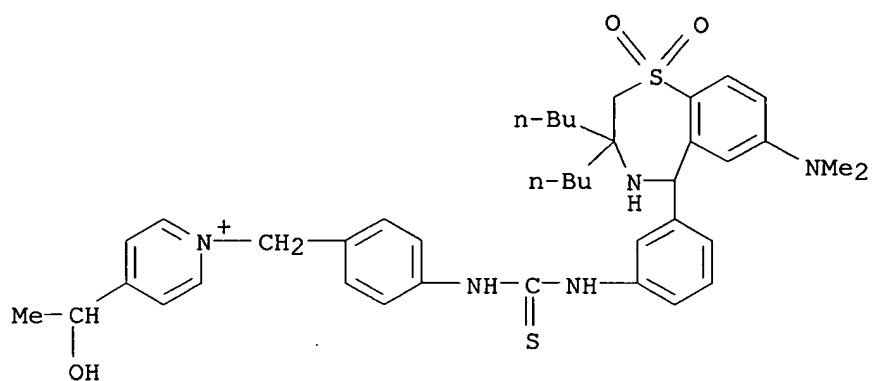
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● Br<sup>-</sup>

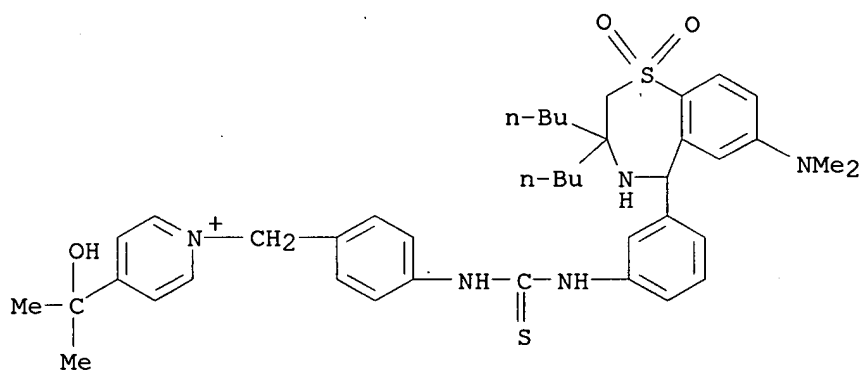
RN 670278-42-9 CAPLUS

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● Br<sup>-</sup>

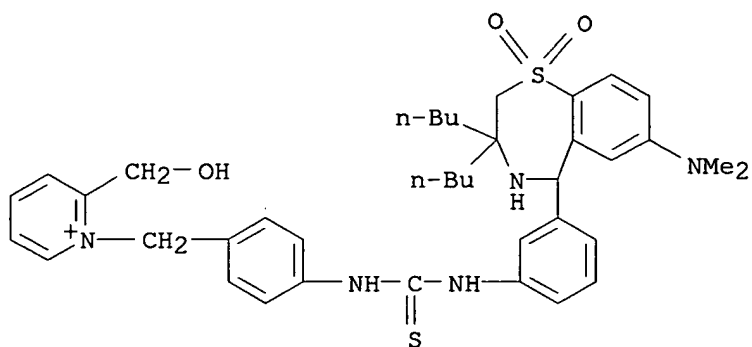
RN 670278-43-0 CAPLUS

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● Br<sup>-</sup>

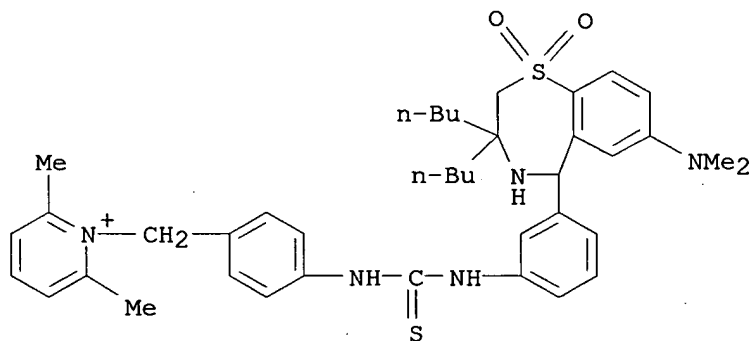
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● Br<sup>-</sup>

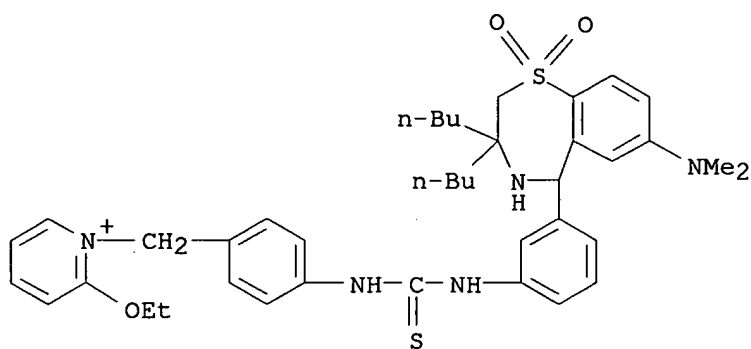
RN 670278-45-2 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670278-46-3 CAPLUS

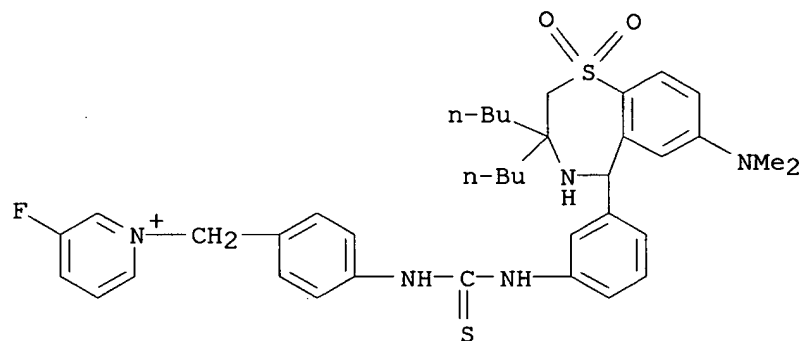
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● Br<sup>-</sup>

RN 670278-47-4 CAPLUS

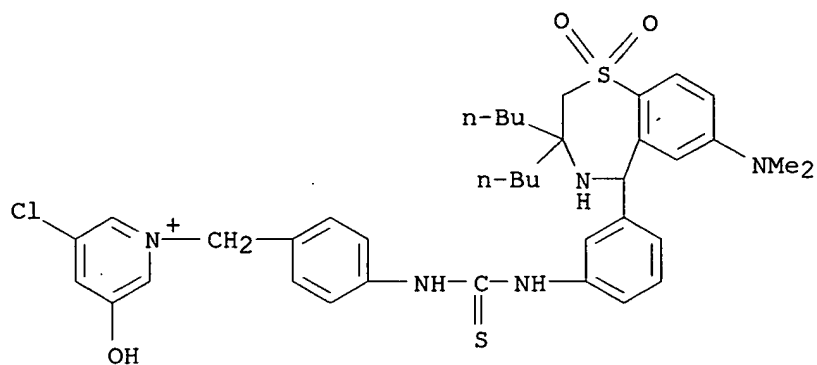
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-fluoro-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

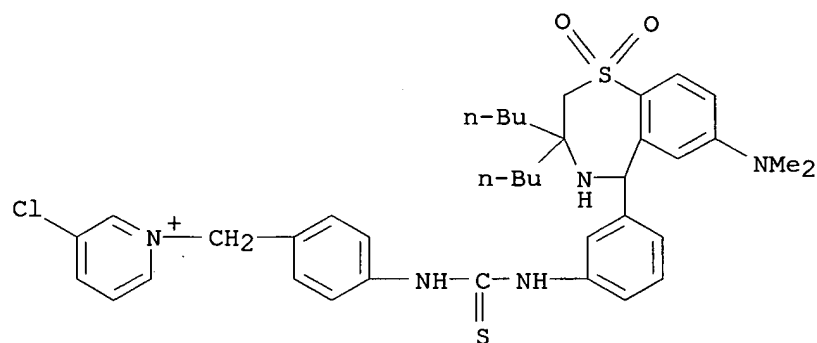
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● Br<sup>-</sup>

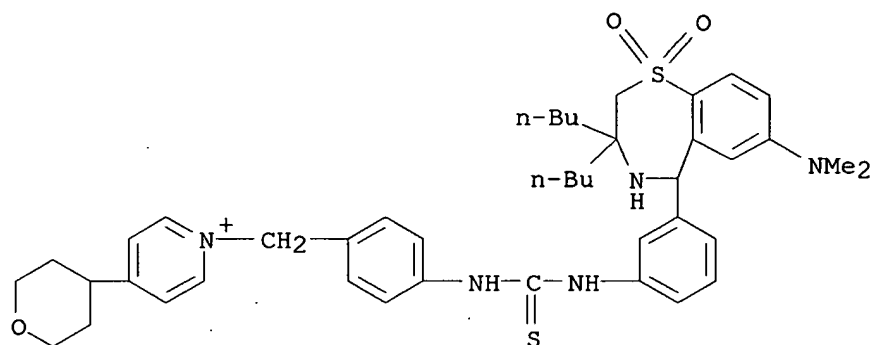
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● Br<sup>-</sup>

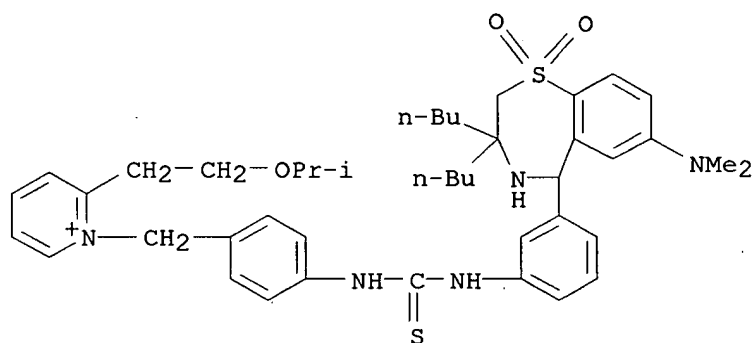
RN 670278-50-9 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(tetrahydro-2H-pyran-4-yl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

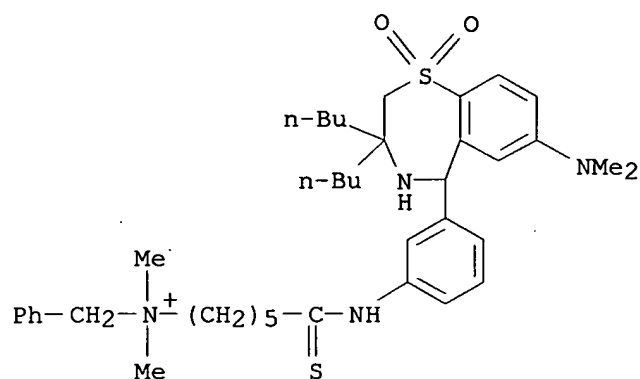
RN 670278-51-0 CAPLUS

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● Br<sup>-</sup>

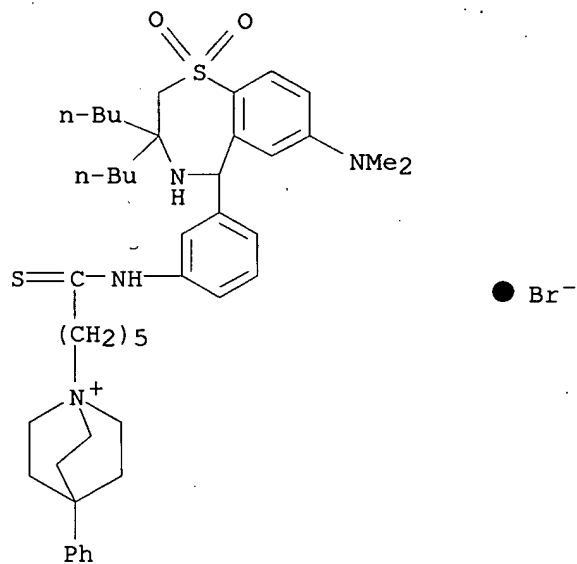
RN 670278-53-2 CAPLUS

CN Benzenemethanaminium, N-[6-[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670278-54-3 CAPLUS

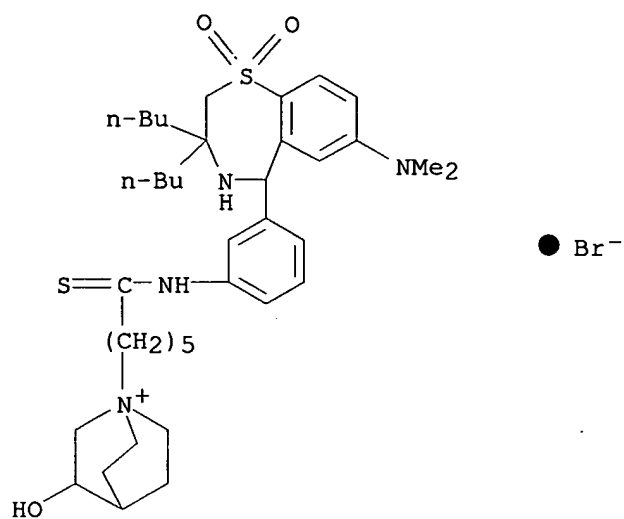
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● Br<sup>-</sup>

RN 670278-55-4 CAPLUS

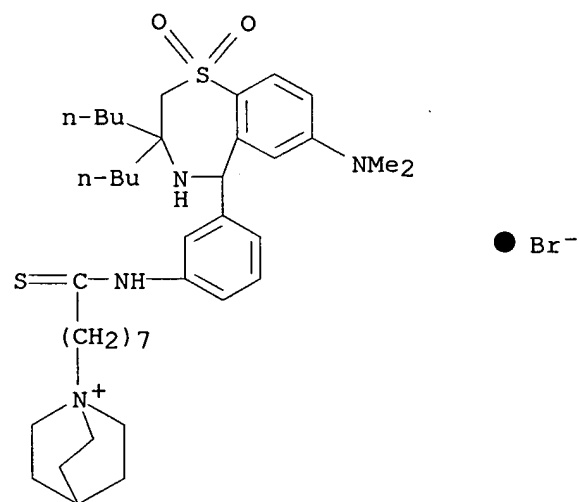
CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-3-hydroxy-, bromide (9CI) (CA INDEX NAME)





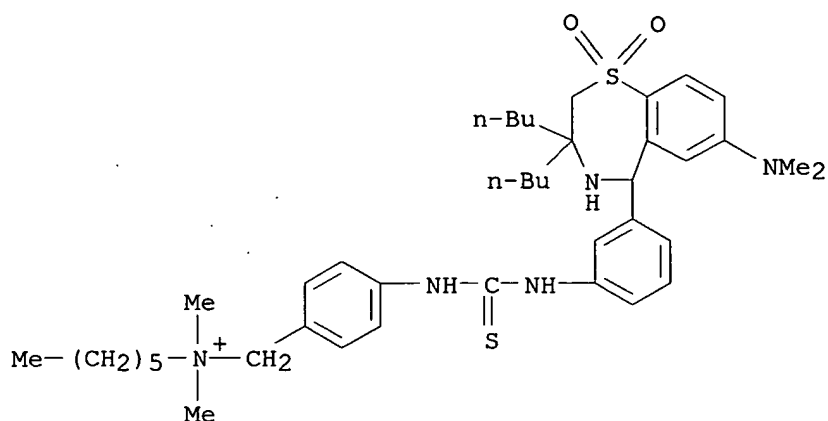
RN 670278-56-5 CAPLUS

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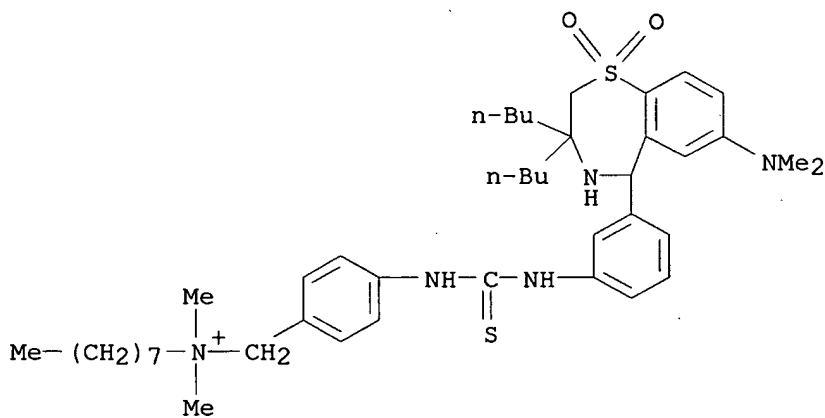
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● Br<sup>-</sup>

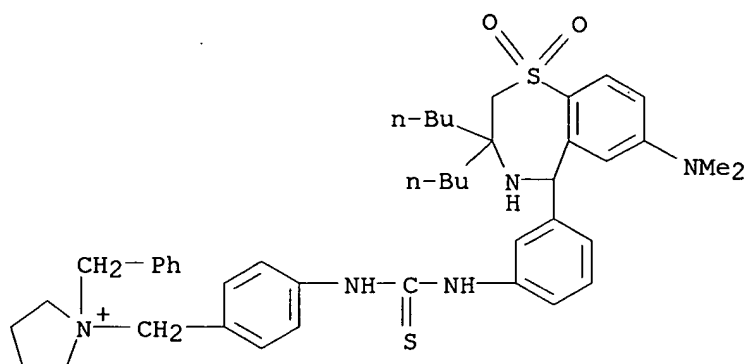
RN 671186-87-1 CAPLUS

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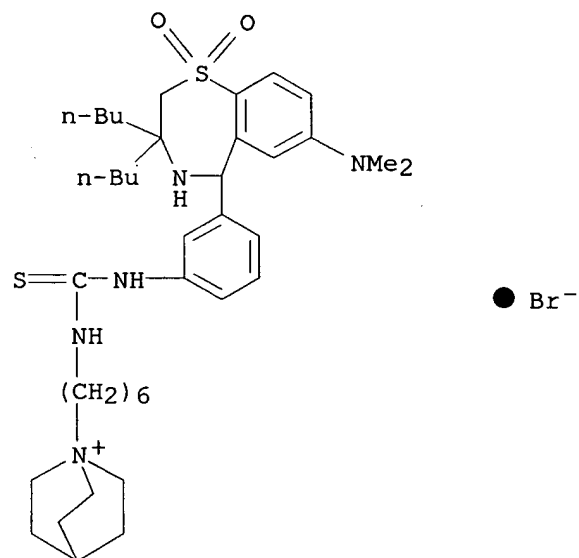
RN 671187-05-6 CAPLUS

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● Br<sup>-</sup>

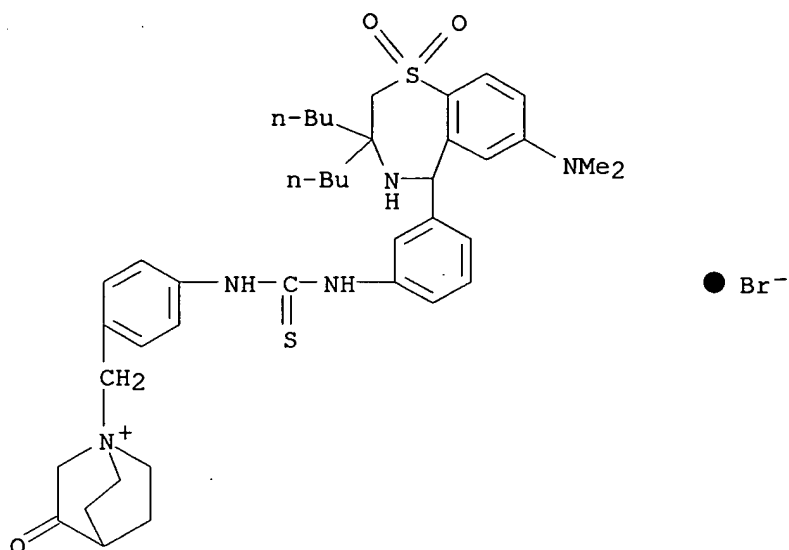
RN 671187-10-3 CAPLUS

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● Br<sup>-</sup>

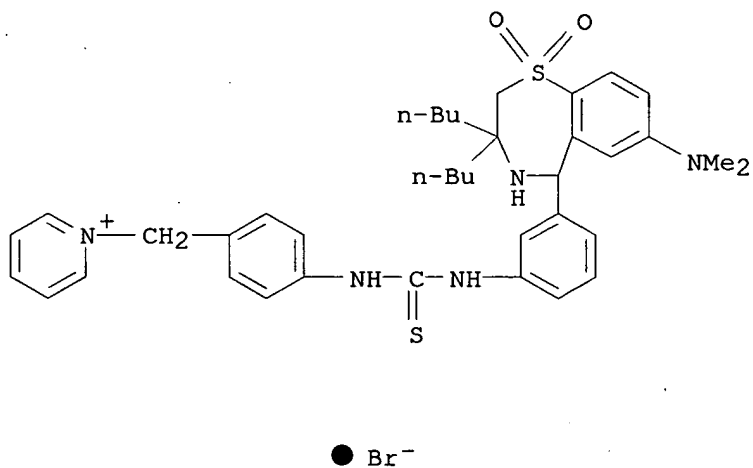
RN 671187-14-7 CAPLUS

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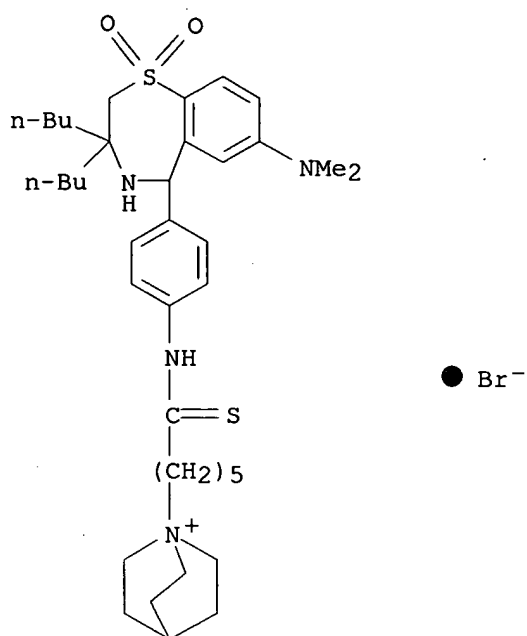
RN 671187-17-0 CAPLUS

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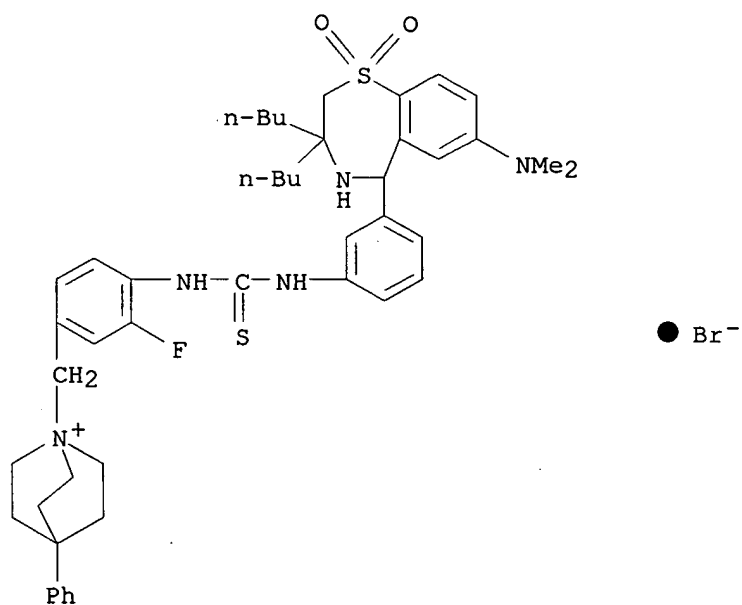
RN 671189-34-7 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[4-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-, bromide (9CI) (CA INDEX NAME)



RN 864348-74-3 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)

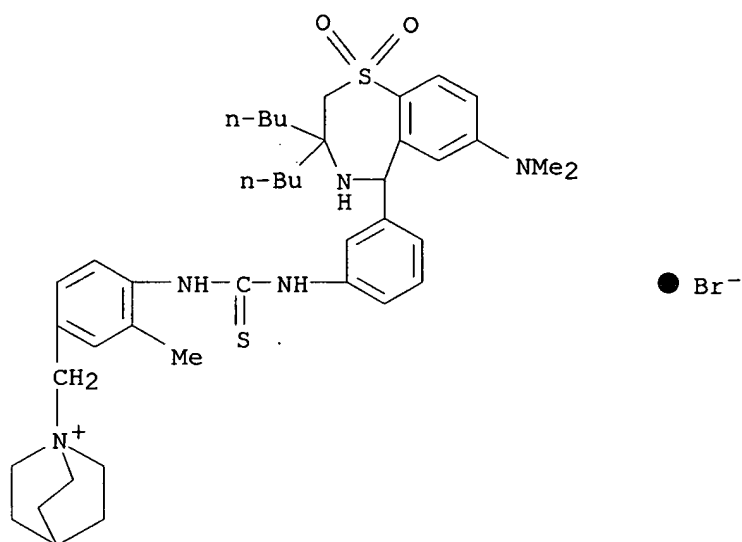


RN 864348-75-4 CAPLUS

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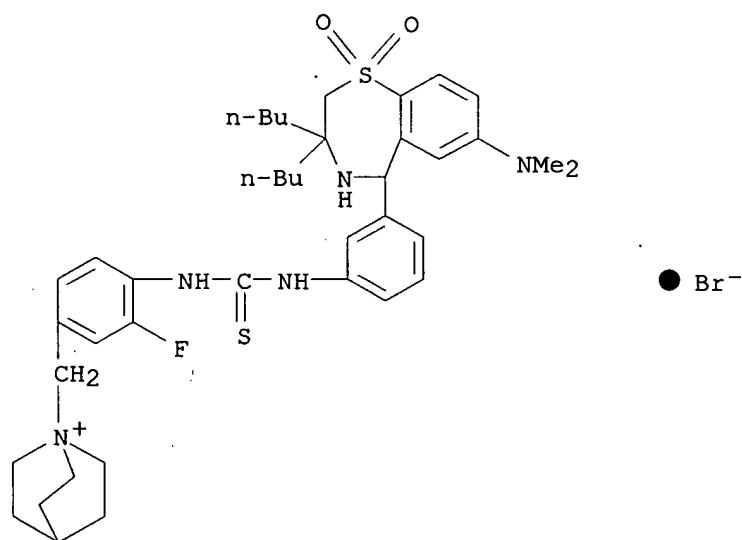
10/256,198

yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-, bromide (9CI)  
(CA INDEX NAME)



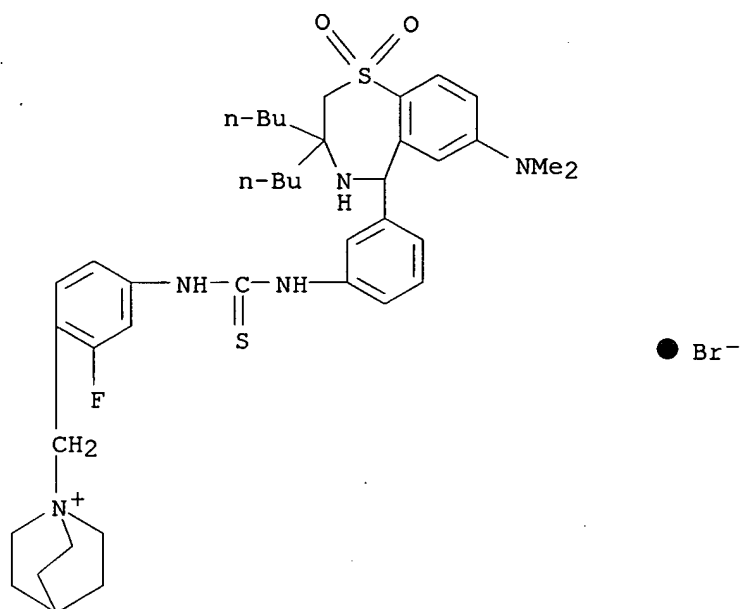
RN 864348-76-5 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-, bromide (9CI)  
(CA INDEX NAME)



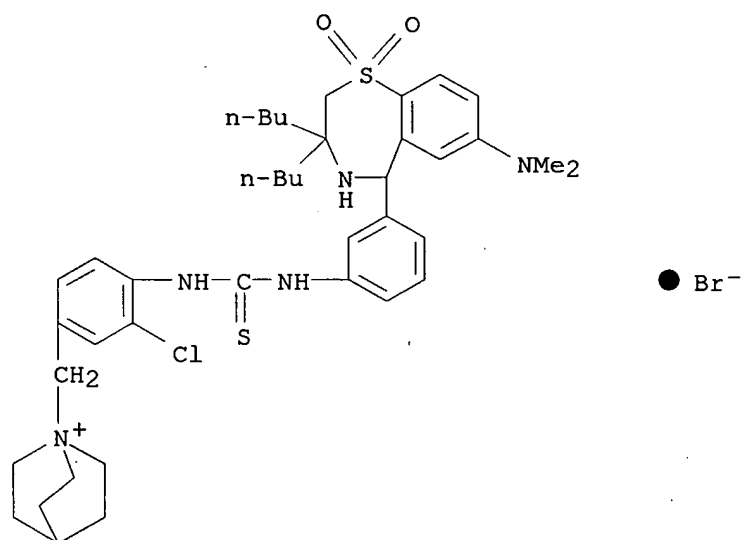
RN 864348-77-6 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluorophenyl]methyl]-, bromide (9CI)  
(CA INDEX NAME)



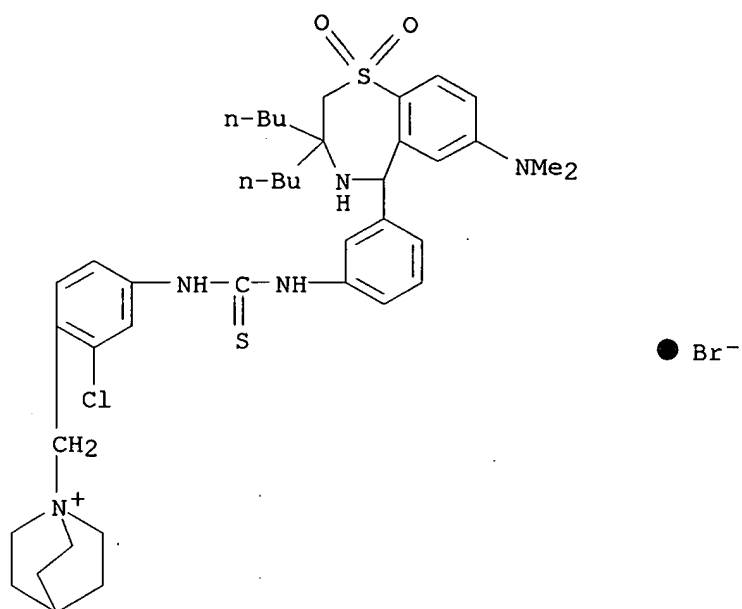
RN 864348-78-7 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[[3-chloro-4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



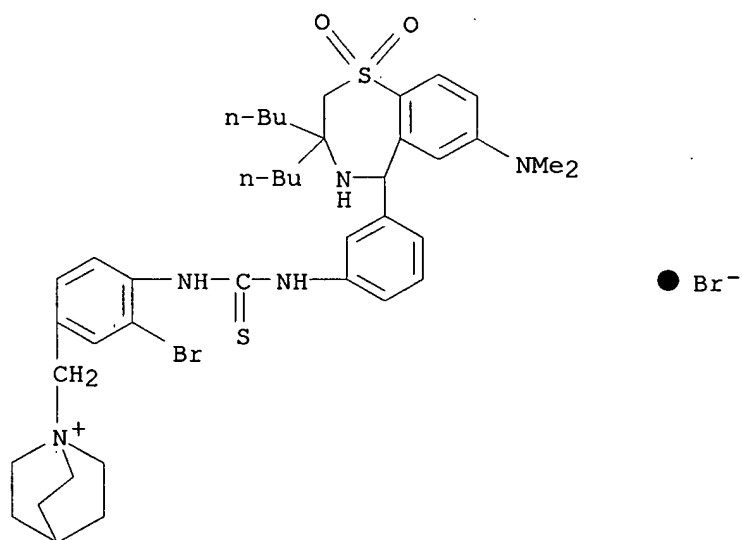
RN 864348-79-8 CAPLUS

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RN 864348-80-1 CAPLUS

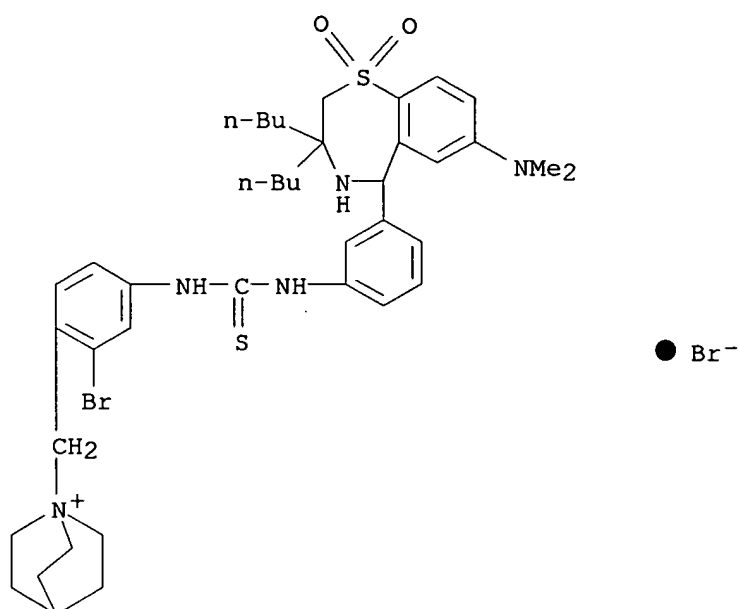
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RN 864348-81-2 CAPLUS

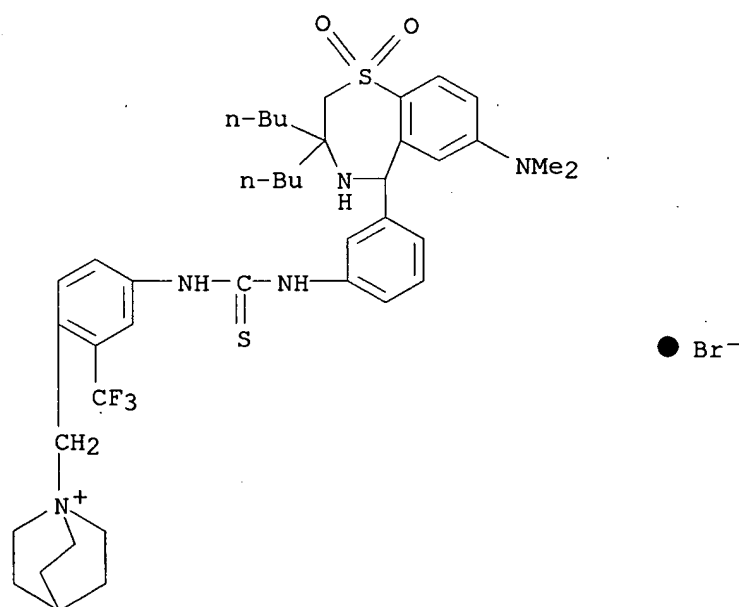
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RN 864348-82-3 CAPLUS

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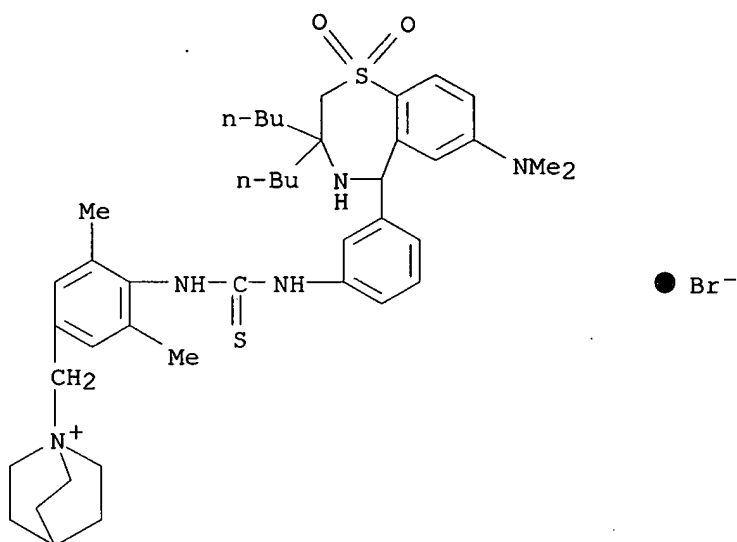


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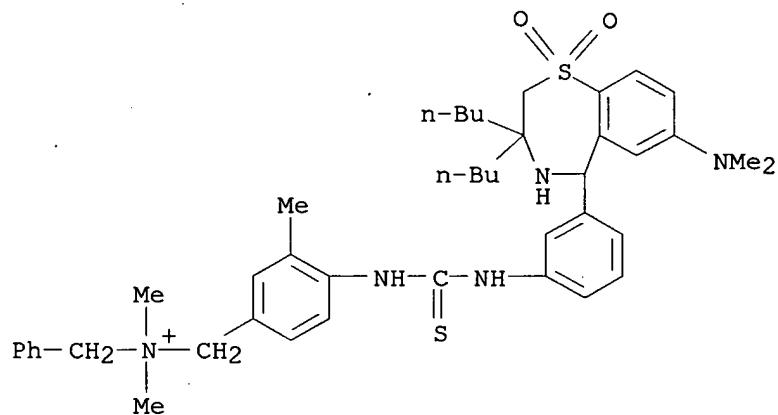
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yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-, bromide  
(9CI) (CA INDEX NAME)



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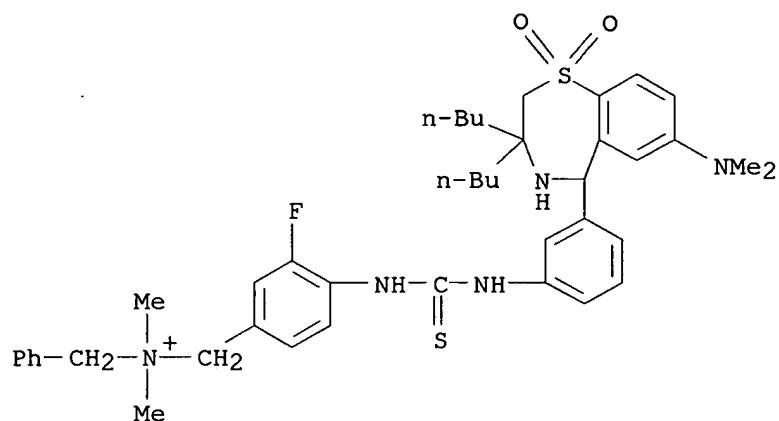
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● Br<sup>-</sup>

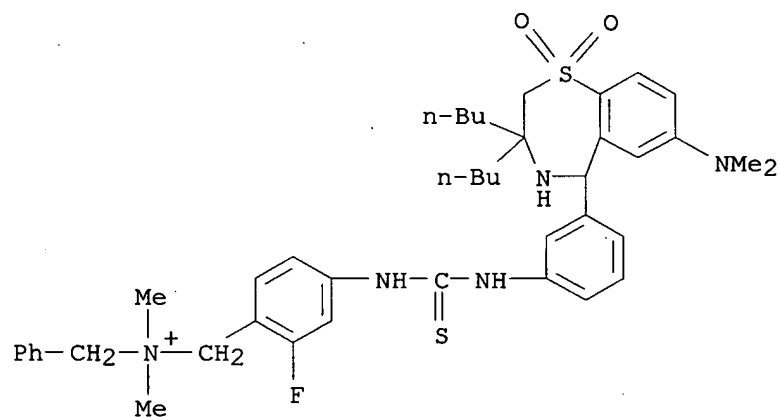
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● Br<sup>-</sup>

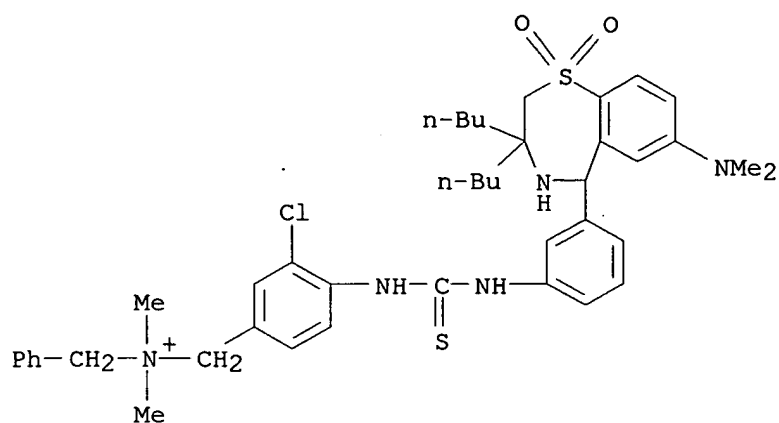
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● Br<sup>-</sup>

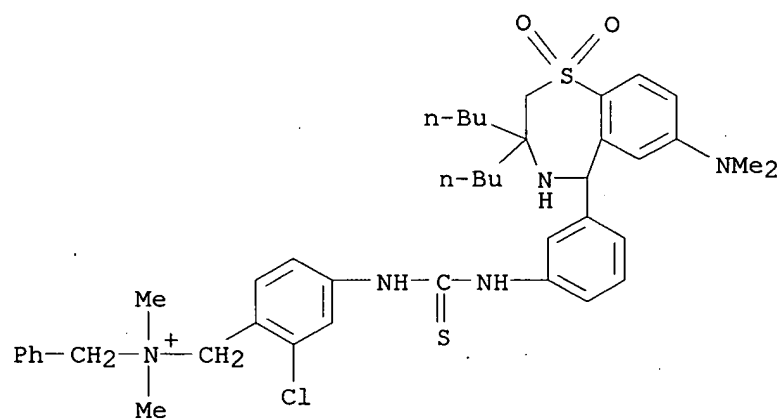
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● Br<sup>-</sup>

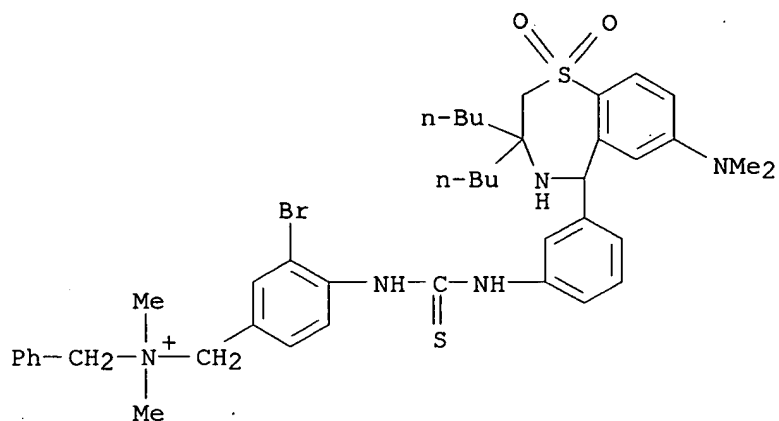
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● Br<sup>-</sup>

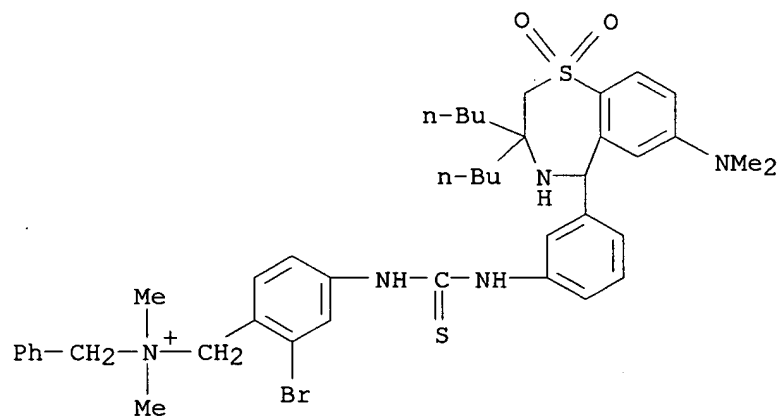
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● Br<sup>-</sup>

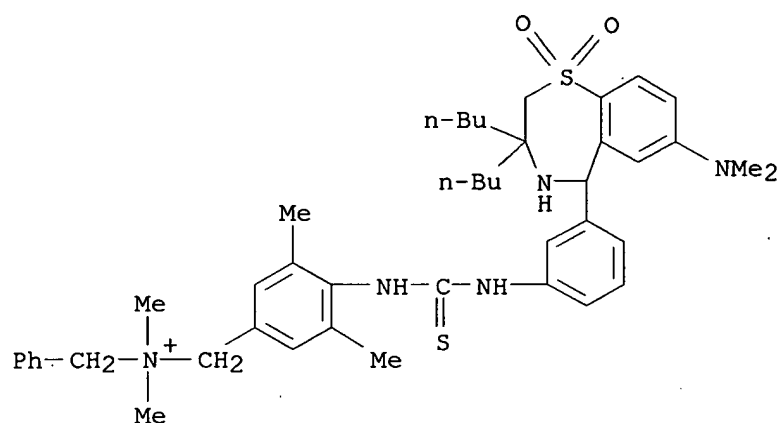
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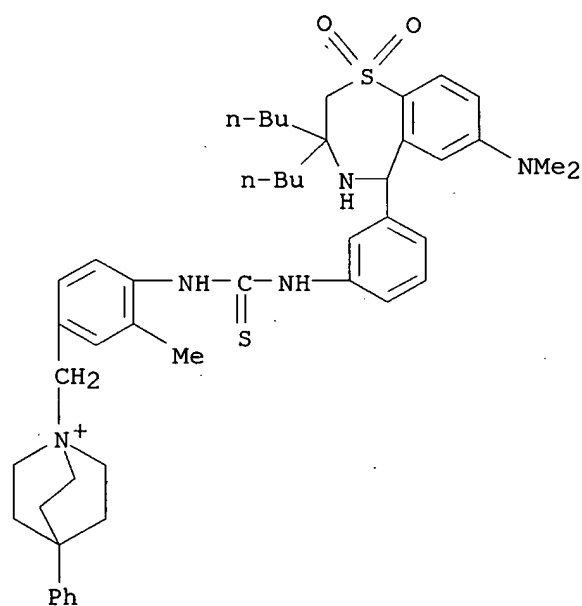
● Br<sup>-</sup>

RN 864348-91-4 CAPLUS

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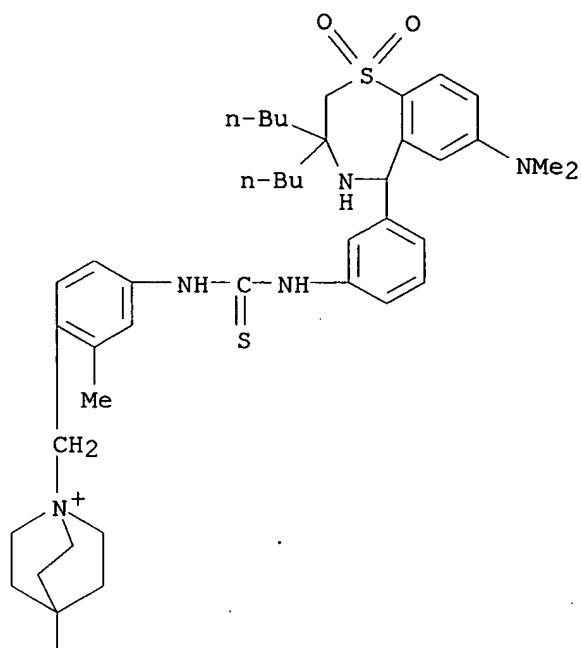
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● Br<sup>-</sup>

RN 864348-93-6 CAPLUS  
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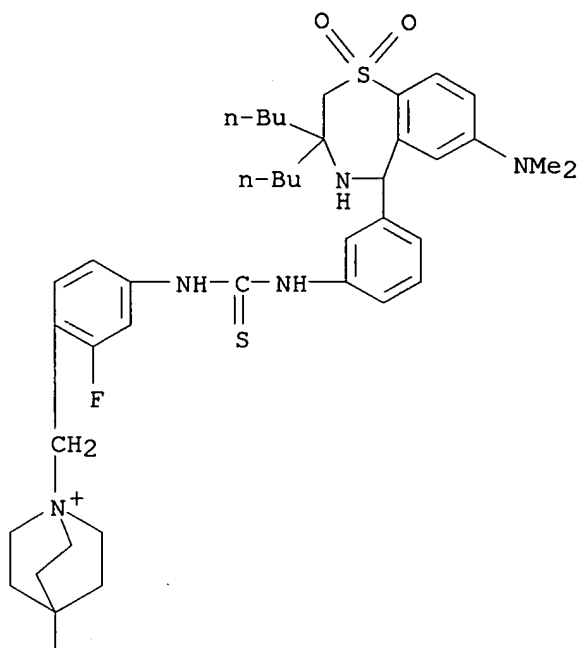
PAGE 2-A

Ph

● Br<sup>-</sup>

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 bromide (9CI) (CA INDEX NAME)

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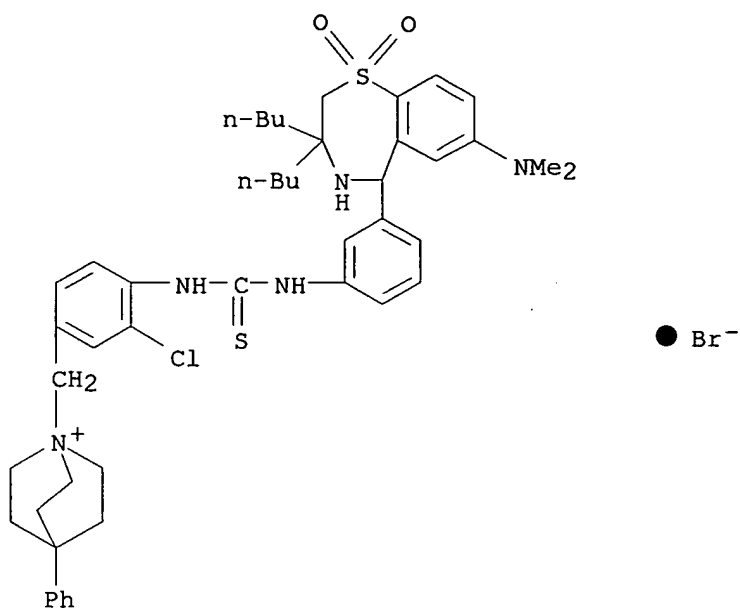
PAGE 2-A

Ph

● Br<sup>-</sup>

RN 864348-95-8 CAPLUS  
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 (CA INDEX NAME)

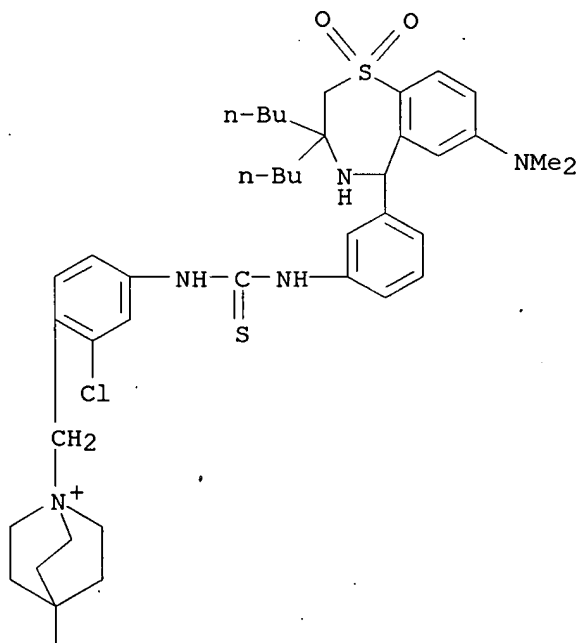




RN 864348-96-9 CAPLUS

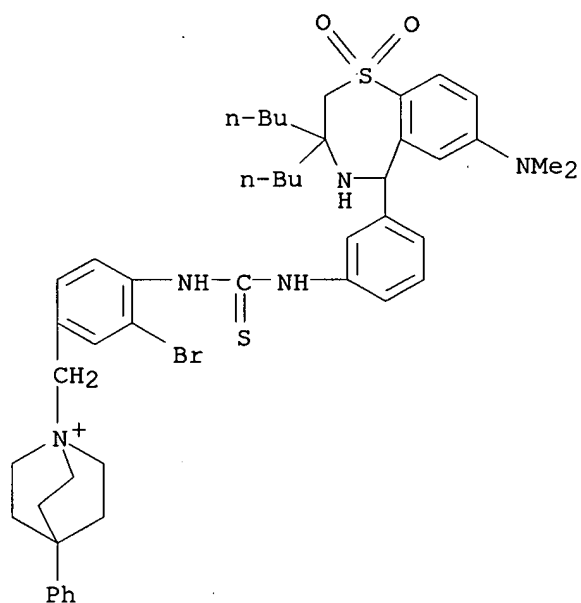
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(CA INDEX NAME)

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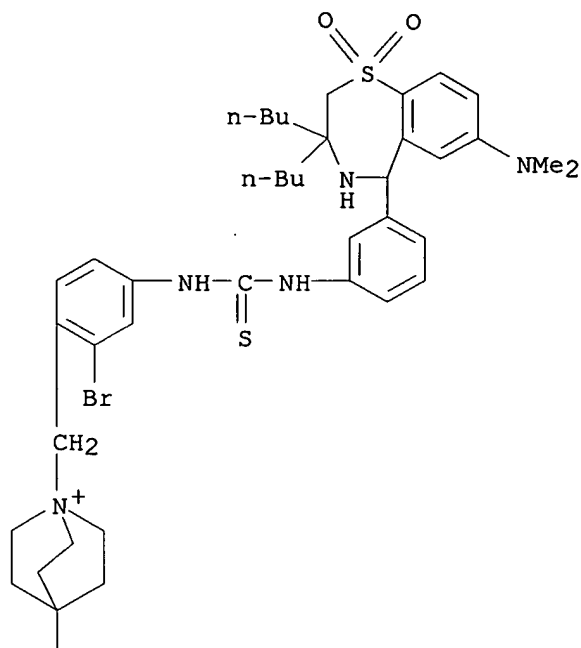


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 (CA INDEX NAME)



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 (CA INDEX NAME)

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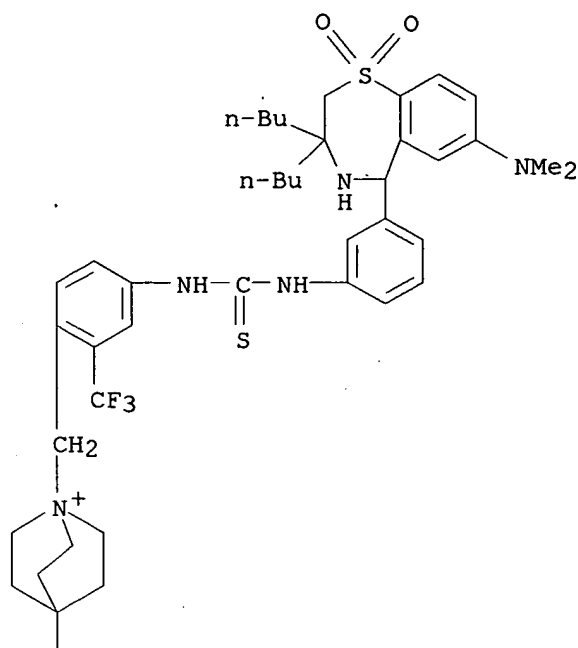
PAGE 2-A

Ph

● Br<sup>-</sup>

RN 864348-99-2 CAPLUS  
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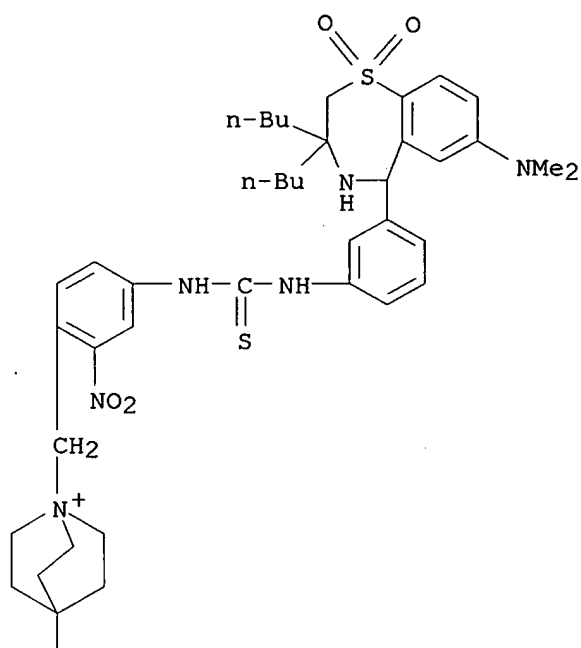


PAGE 2-A

Ph

● Br<sup>-</sup>

RN 864349-00-8 CAPLUS  
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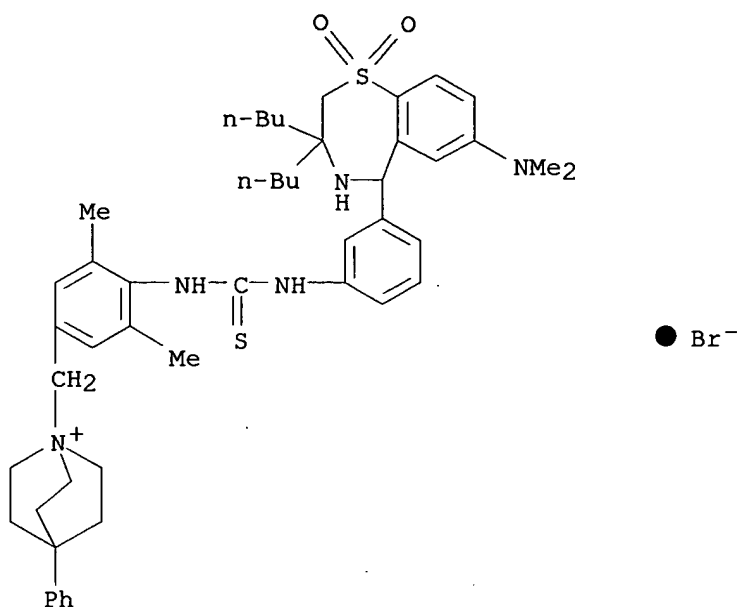


Ph

● Br<sup>-</sup>

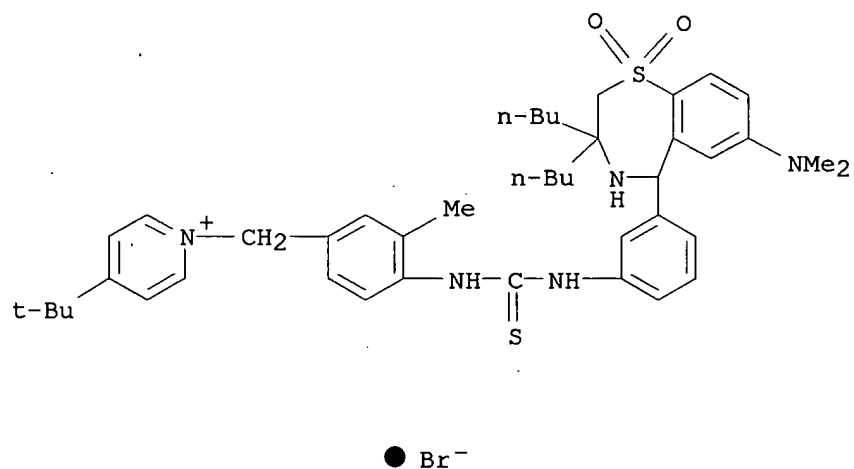
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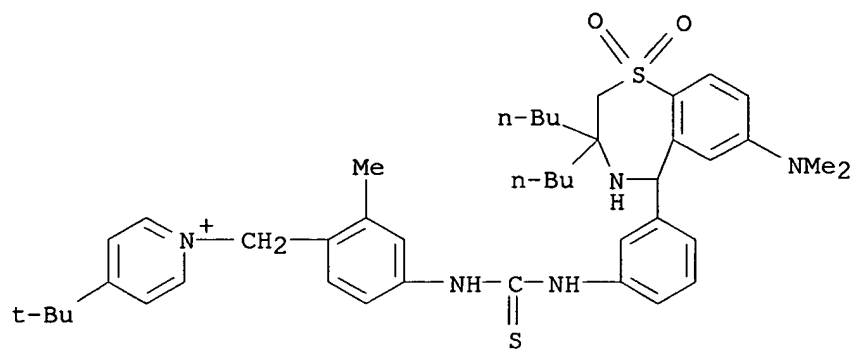
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RN 864349-03-1 CAPLUS

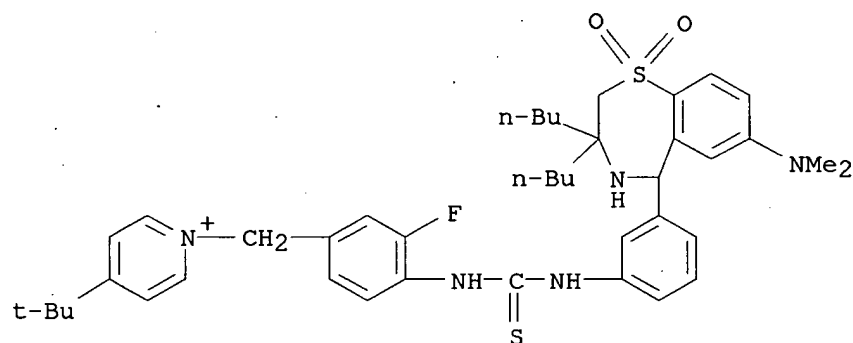
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● Br<sup>-</sup>

RN 864349-04-2 CAPLUS

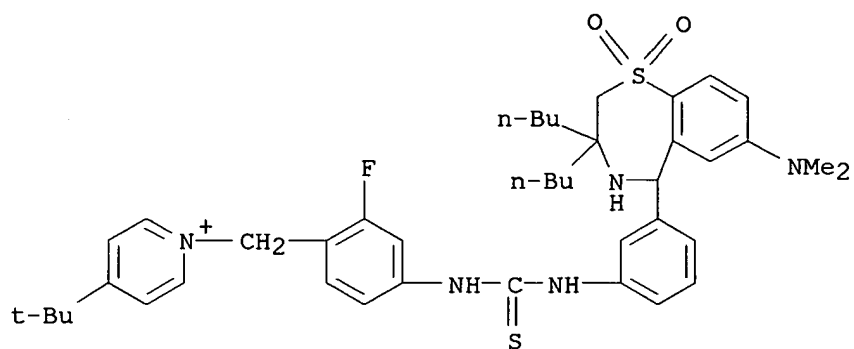
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● Br<sup>-</sup>

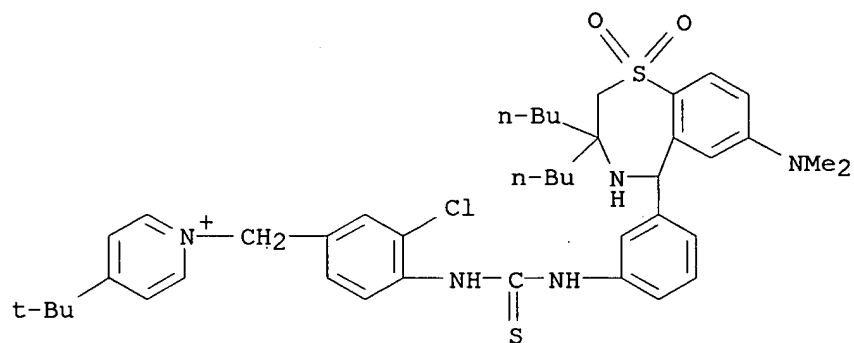
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● Br<sup>-</sup>

RN 864349-06-4 CAPLUS

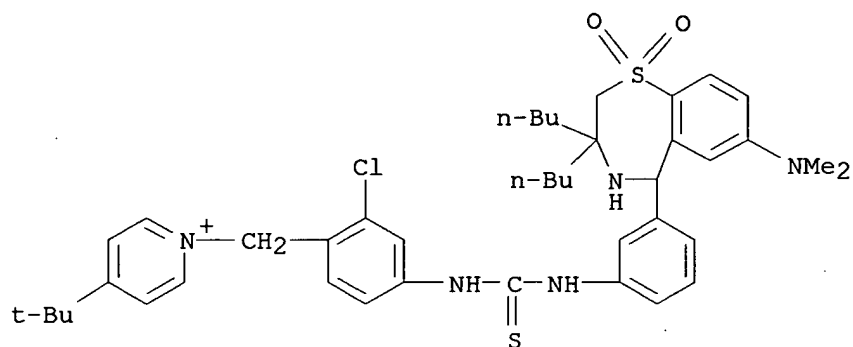
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● Br<sup>-</sup>

RN 864349-07-5 CAPLUS

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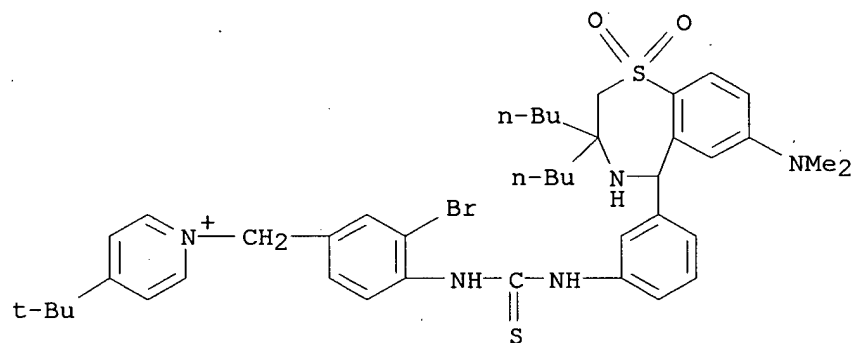




● Br<sup>-</sup>

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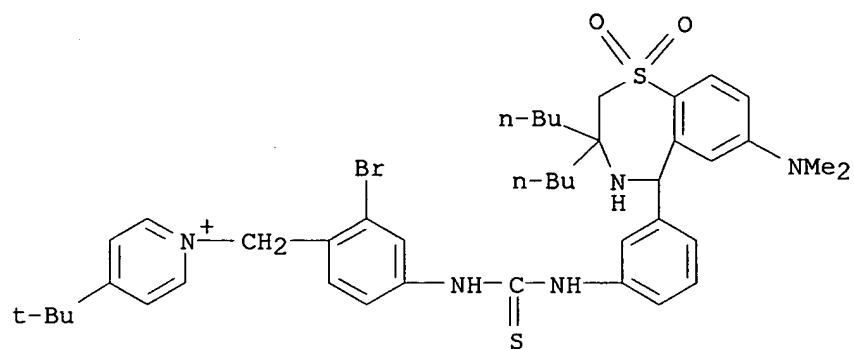
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● Br<sup>-</sup>

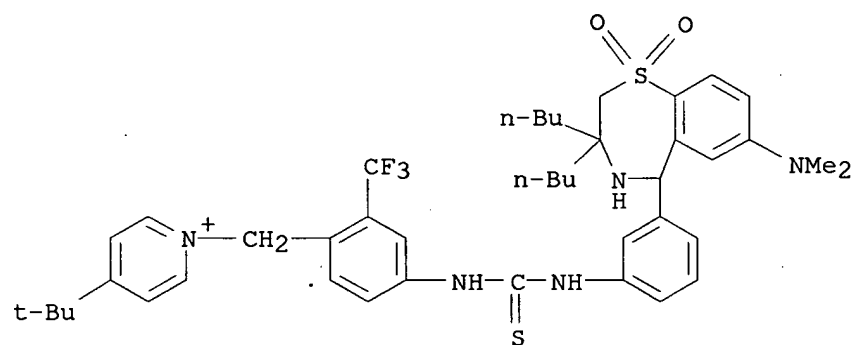
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● Br<sup>-</sup>

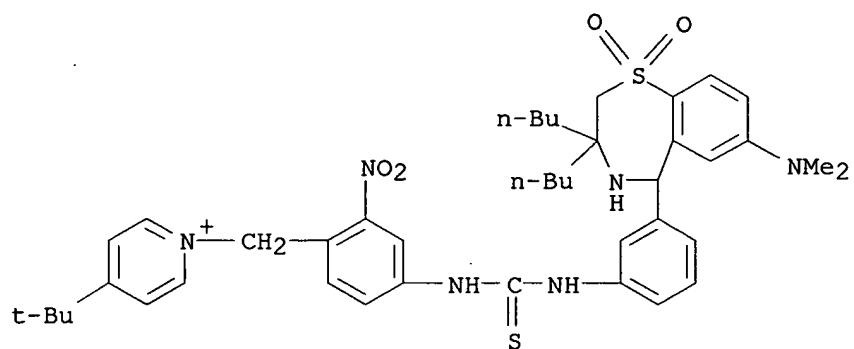
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● Br<sup>-</sup>

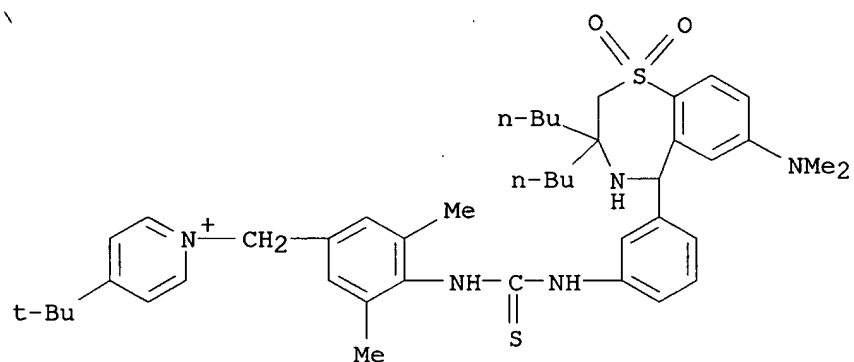
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● Br<sup>-</sup>

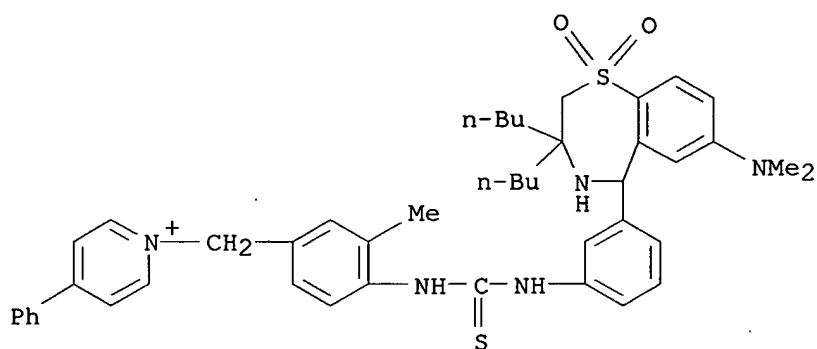
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● Br<sup>-</sup>

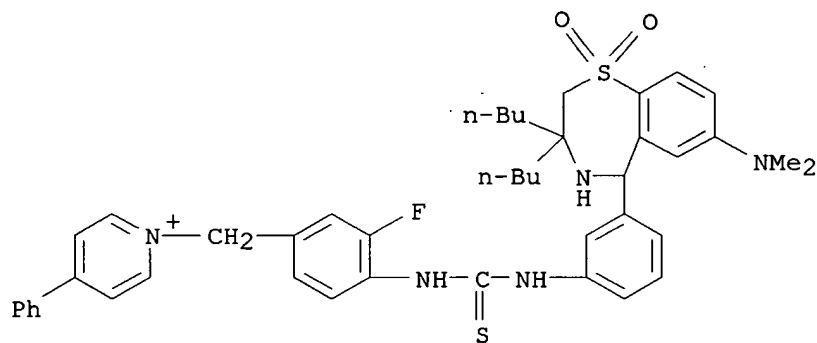
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● Br<sup>-</sup>

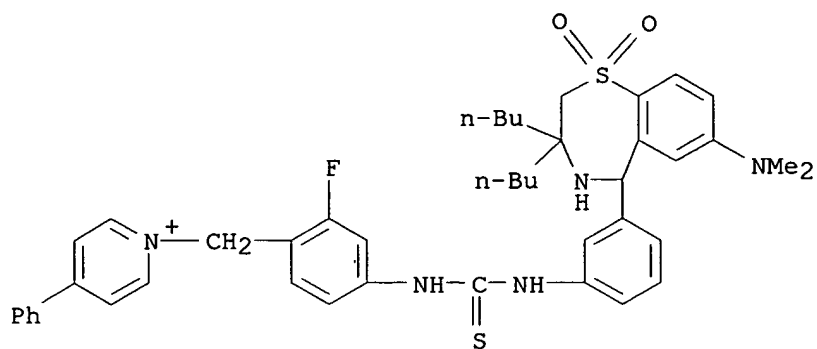
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● Br<sup>-</sup>

RN 864349-15-5 CAPLUS

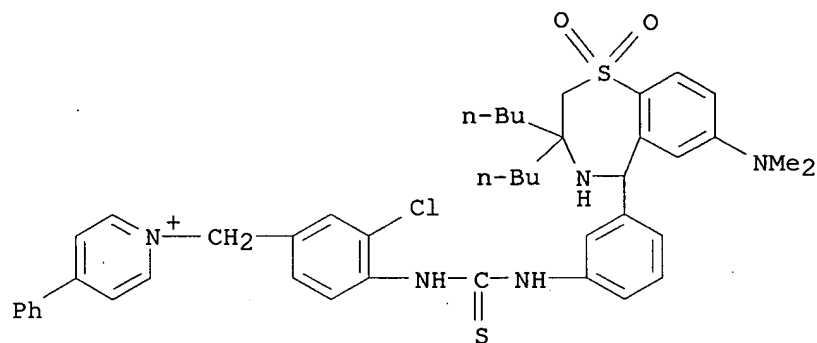
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● Br<sup>-</sup>

RN 864349-16-6 CAPLUS

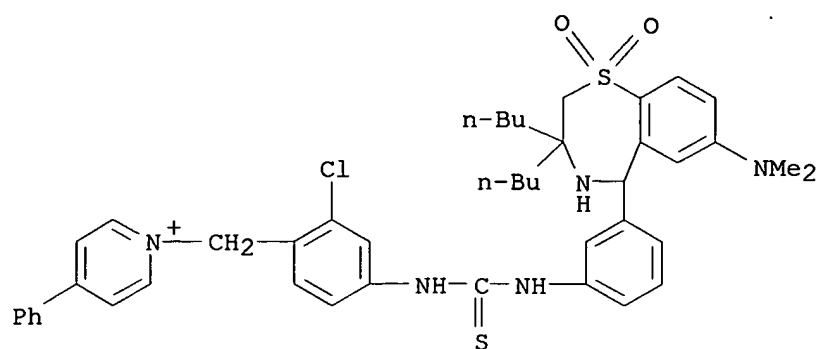
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● Br<sup>-</sup>

RN 864349-17-7 CAPLUS

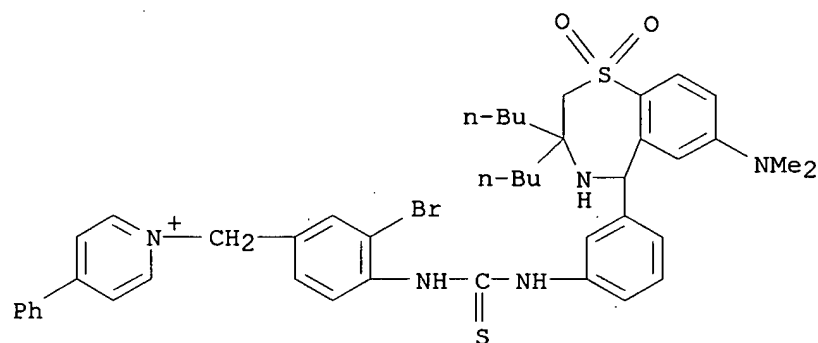
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● Br<sup>-</sup>

RN 864349-18-8 CAPLUS

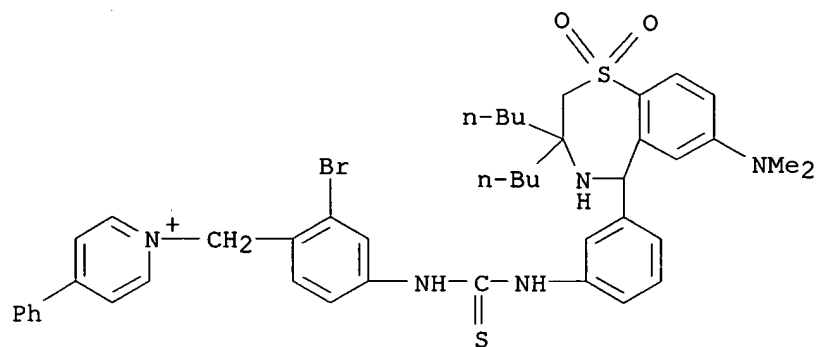
CN Pyridinium, 1-[[3-bromo-4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

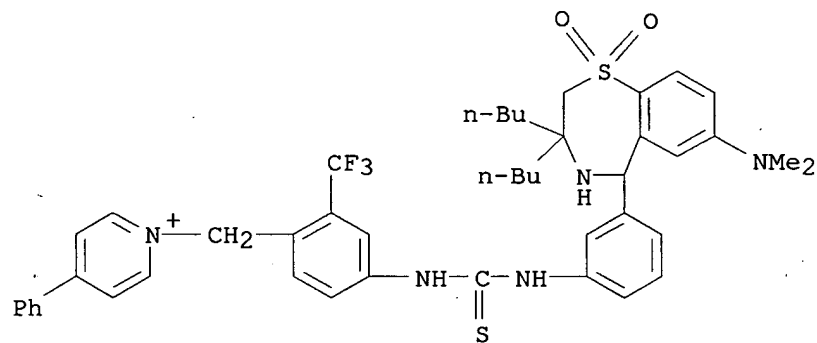
RN 864349-19-9 CAPLUS

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● Br<sup>-</sup>

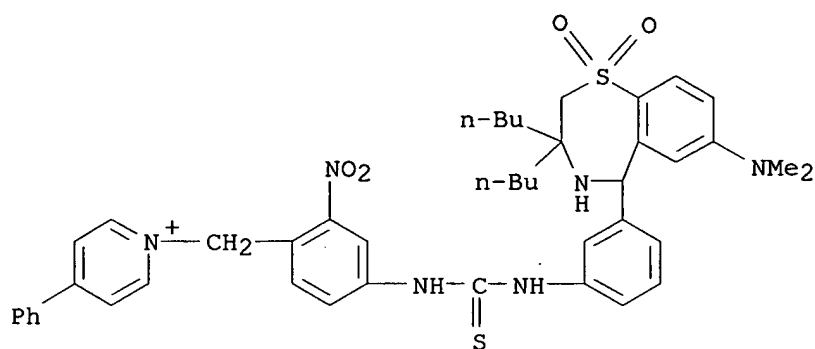
RN 864349-20-2 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-(trifluoromethyl)phenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

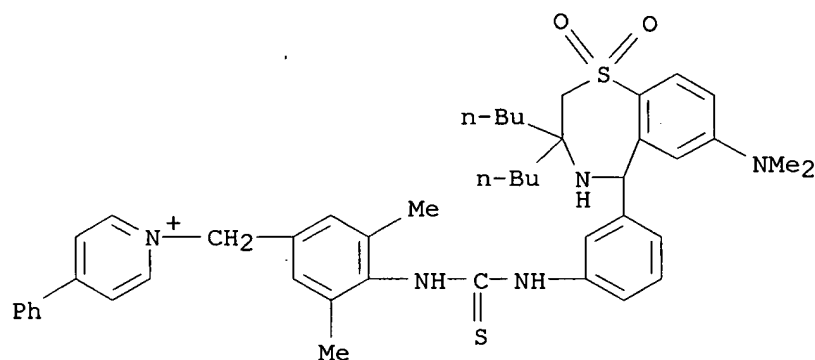
RN 864349-21-3 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 864349-22-4 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)

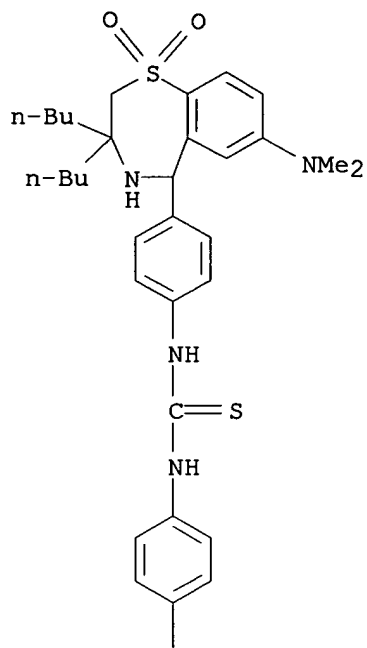
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RN 864349-23-5 CAPLUS

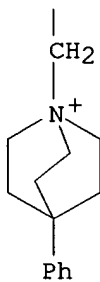
CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[4-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)



PAGE 1-A



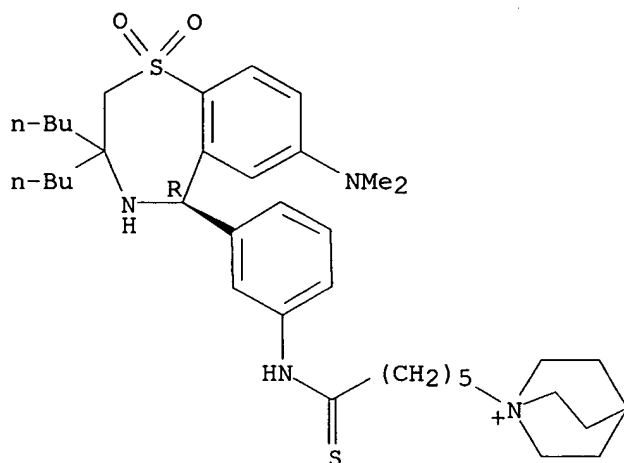
PAGE 2-A

● Br<sup>-</sup>

RN 864349-24-6 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[3-[(5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-, bromide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

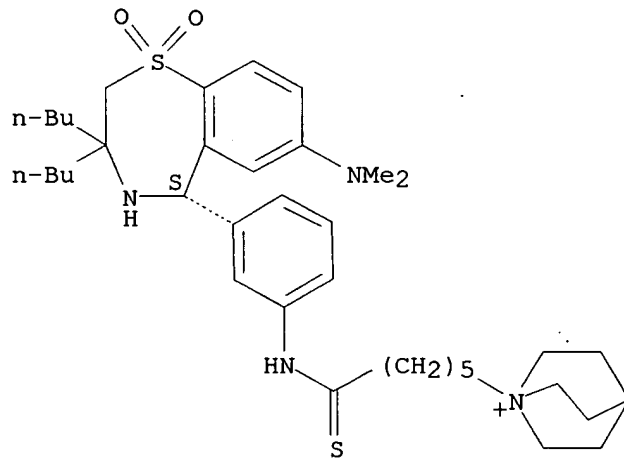


● Br<sup>-</sup>

RN 864349-25-7 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[3-[(5S)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-, bromide (9CI) (CA INDEX NAME).

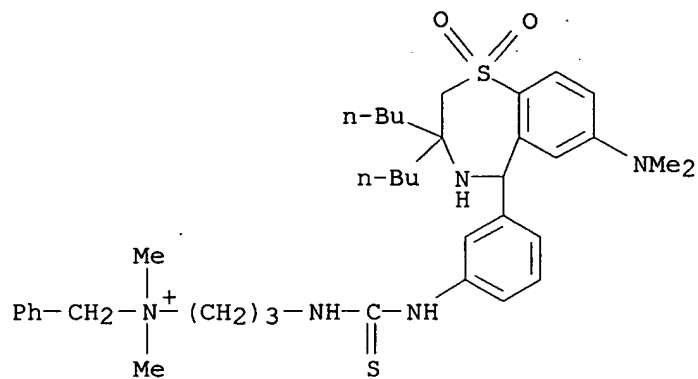
Absolute stereochemistry.



● Br<sup>-</sup>

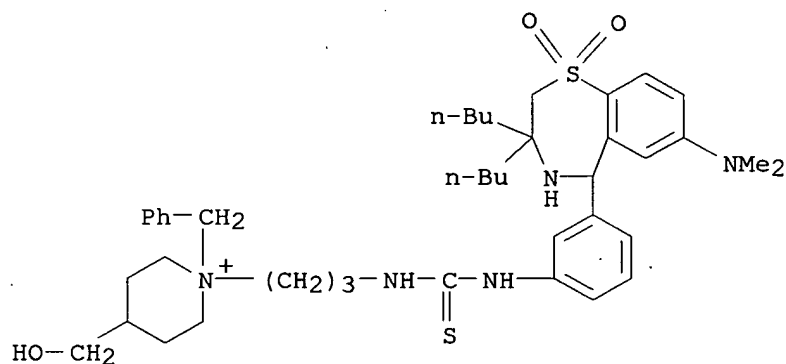
RN 864349-26-8 CAPLUS

CN Benzenemethanaminium, N-[3-[[[3-[[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

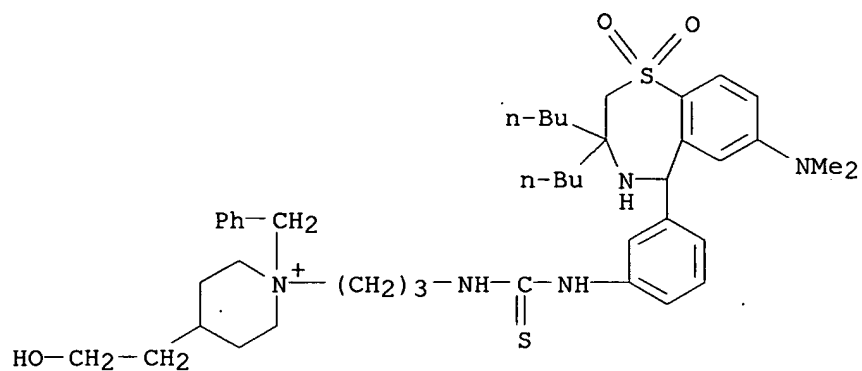
RN 864349-27-9 CAPLUS

CN Piperidinium, 1-[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-4-(hydroxymethyl)-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

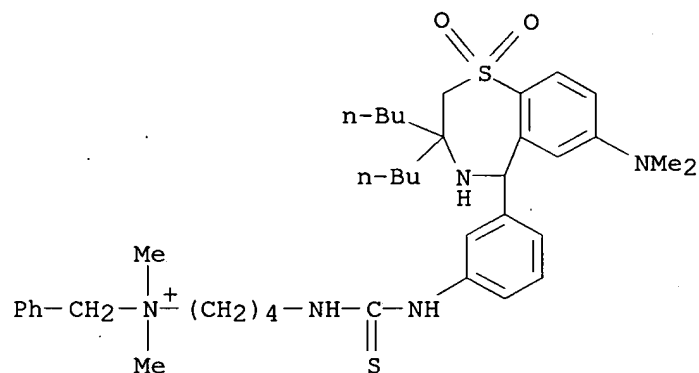
RN 864349-28-0 CAPLUS

CN Piperidinium, 1-[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-4-(2-hydroxyethyl)-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

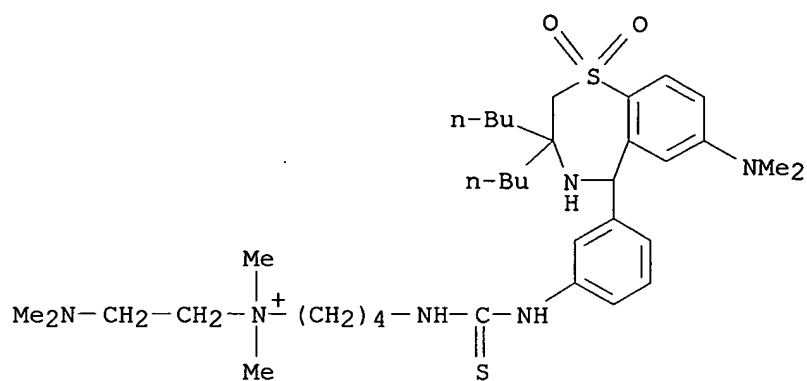
RN 864349-29-1 CAPLUS

CN Benzenemethanaminium, N-[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

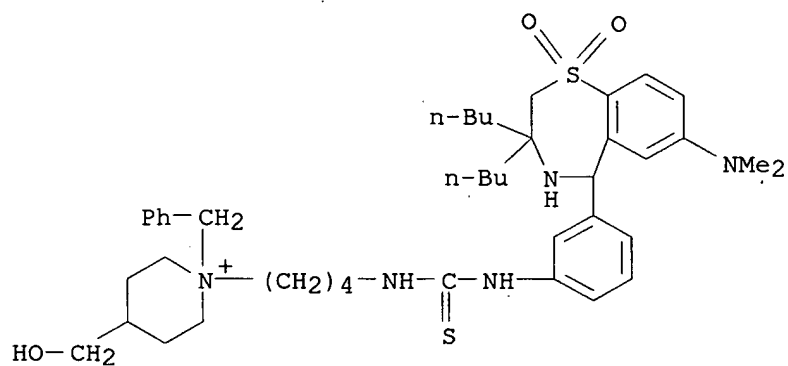
RN 864349-30-4 CAPLUS

CN 1-Butanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-[2-(dimethylamino)ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

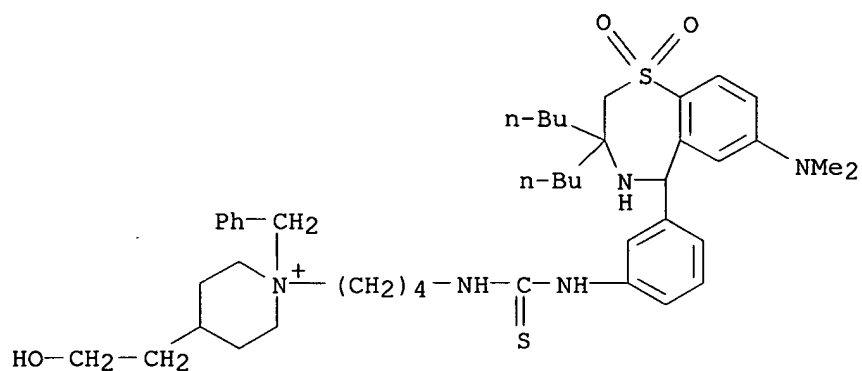
RN 864349-31-5 CAPLUS

CN Piperidinium, 1-[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-4-(hydroxymethyl)-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

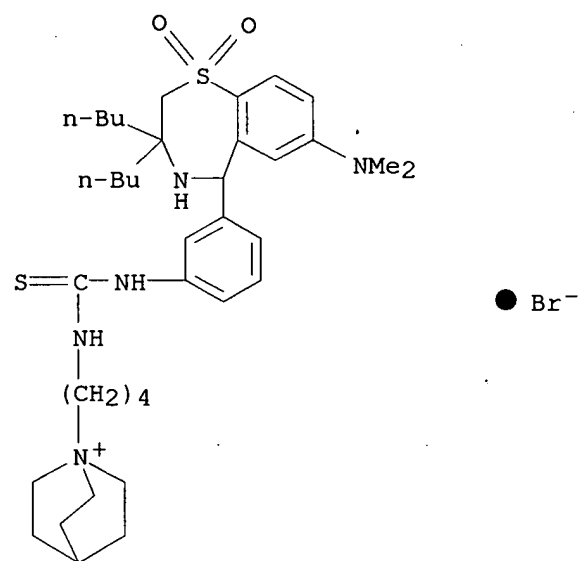
RN 864349-32-6 CAPLUS

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● Br<sup>-</sup>

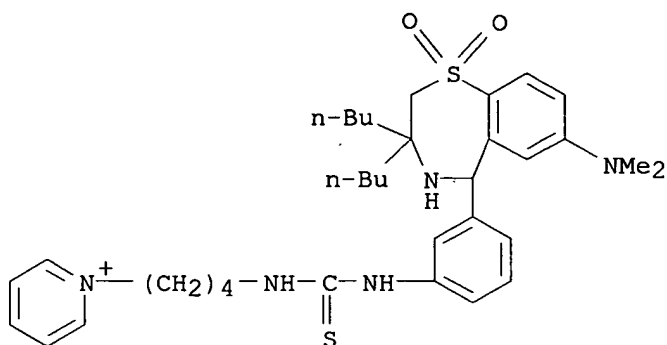
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CN 1-Azoniabicyclo[2.2.2]octane, 1-[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

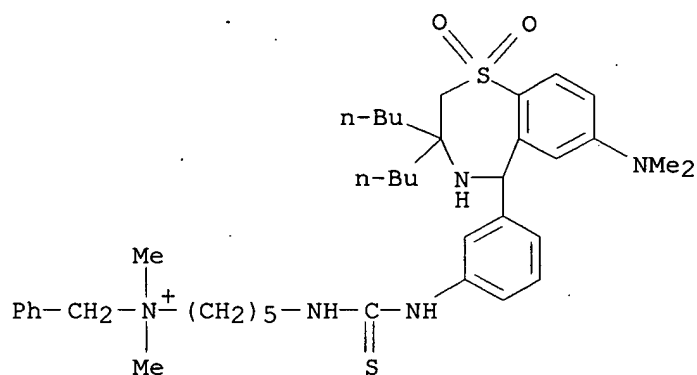
RN 864349-34-8 CAPLUS

CN Pyridinium, 1-[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

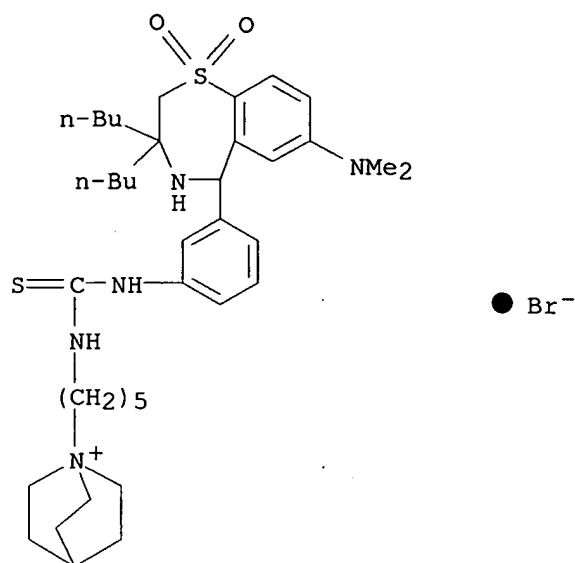
RN 864349-35-9 CAPLUS

CN Benzenemethanaminium, N-[5-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]pentyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

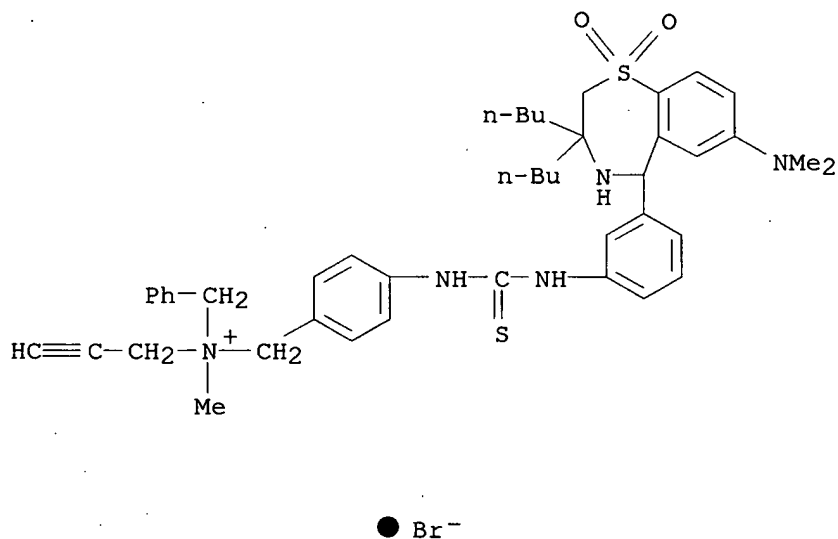
RN 864349-36-0 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[5-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]pentyl]-, bromide (9CI) (CA INDEX NAME)



RN 864349-37-1 CAPLUS

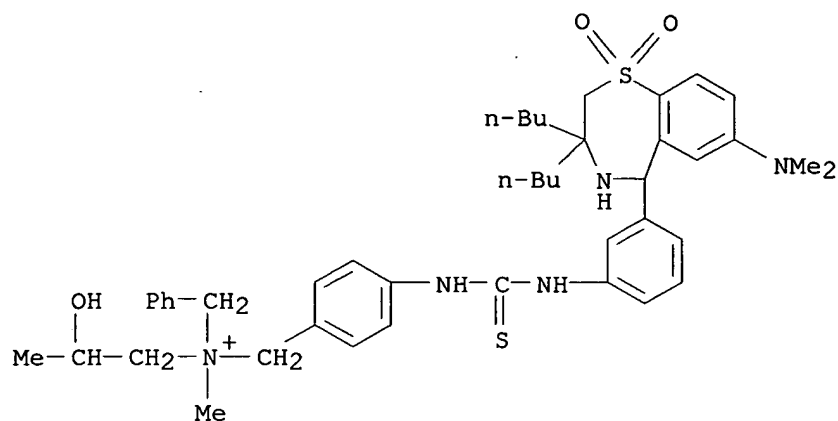
CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-methyl-N-(phenylmethyl)-N-2-propynyl-, bromide (9CI) (CA INDEX NAME)



RN 864349-38-2 CAPLUS

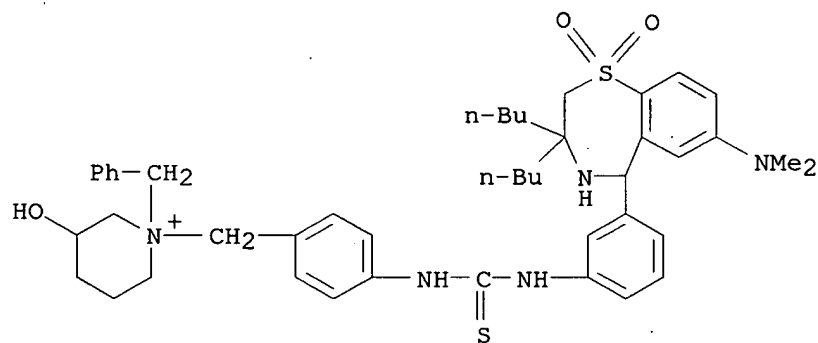
CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-(2-hydroxypropyl)-N-methyl-N-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

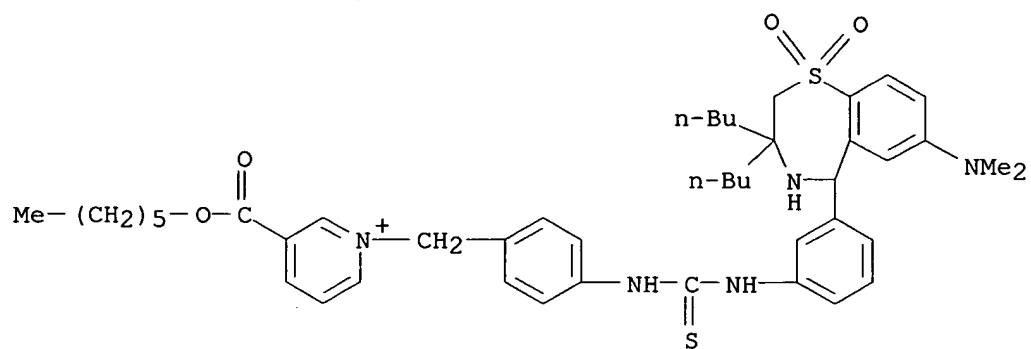
RN 864349-39-3 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-hydroxy-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

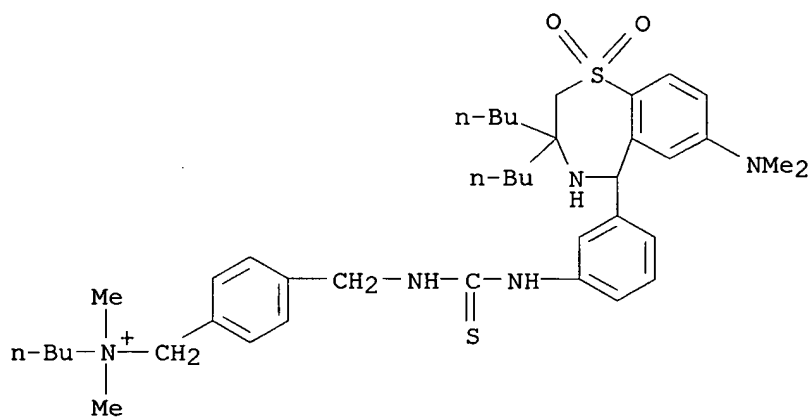
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RN 864349-40-6 CAPLUS

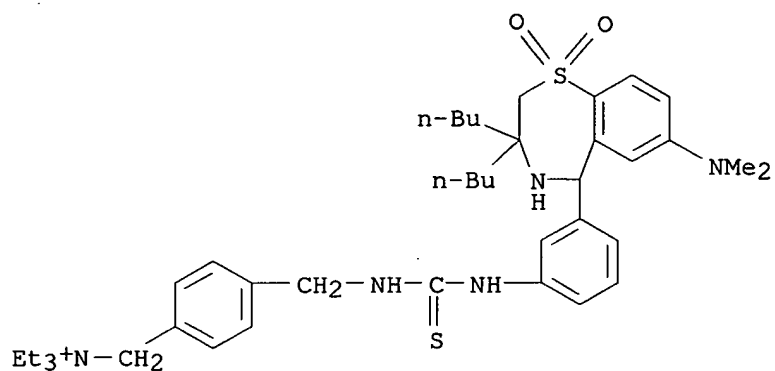
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-[(hexyloxy)carbonyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 864349-41-7 CAPLUS  
 CN Benzenemethanaminium, N-butyl-4-[[[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N,N-dimethyl-, bromide (9CI)  
 (CA INDEX NAME)

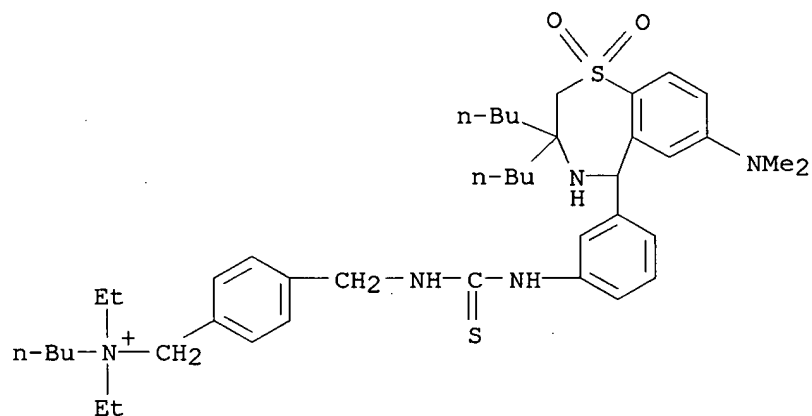
● Br<sup>-</sup>

RN 864349-42-8 CAPLUS  
 CN Benzenemethanaminium, 4-[[[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N,N,N-triethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

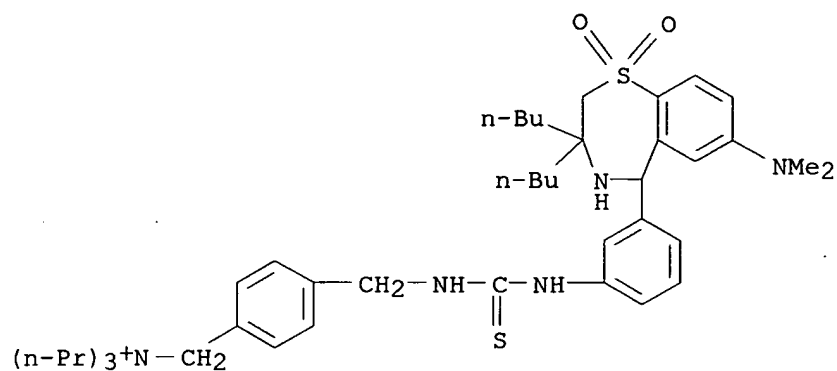
RN 864349-43-9 CAPLUS

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(CA INDEX NAME)

● Br<sup>-</sup>

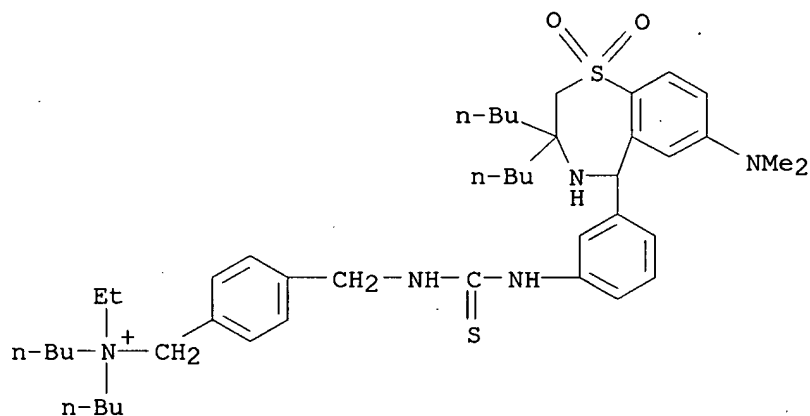
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● Br<sup>-</sup>

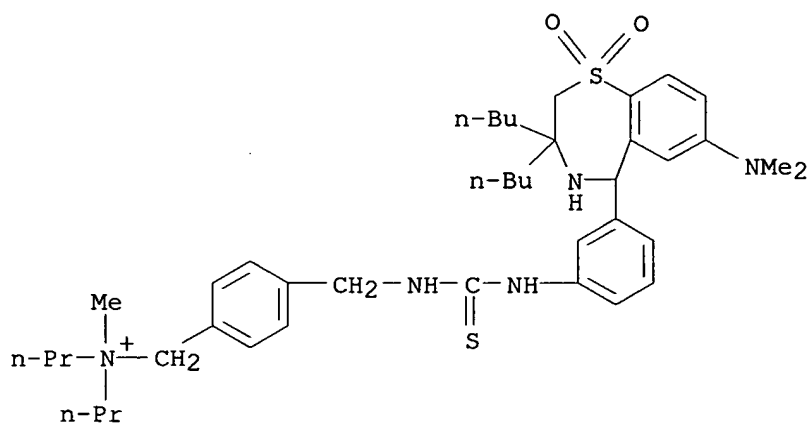
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● Br<sup>-</sup>

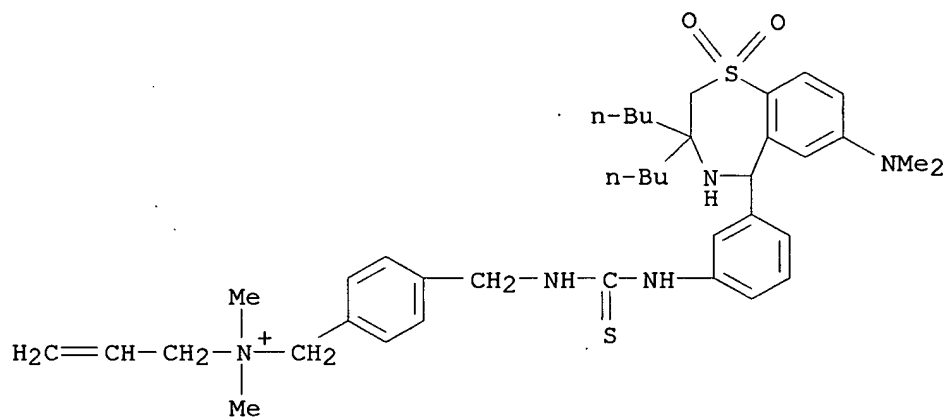
RN 864349-46-2 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N-methyl-N,N-dipropyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

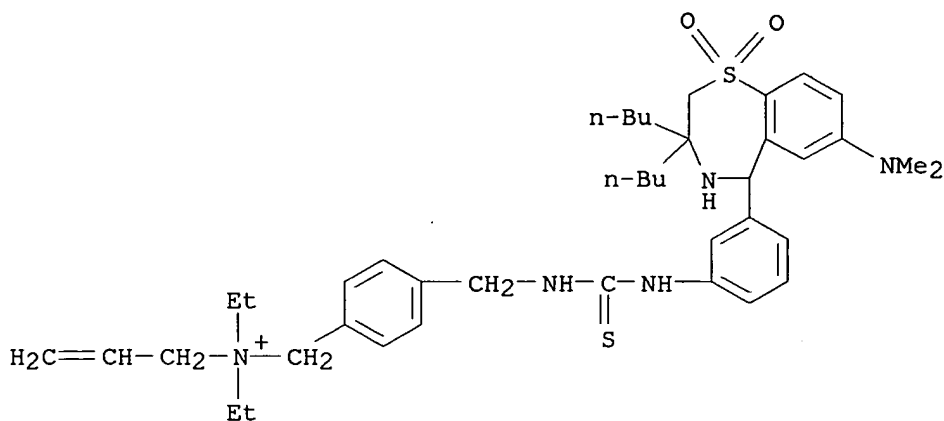
RN 864349-47-3 CAPLUS

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● Br<sup>-</sup>

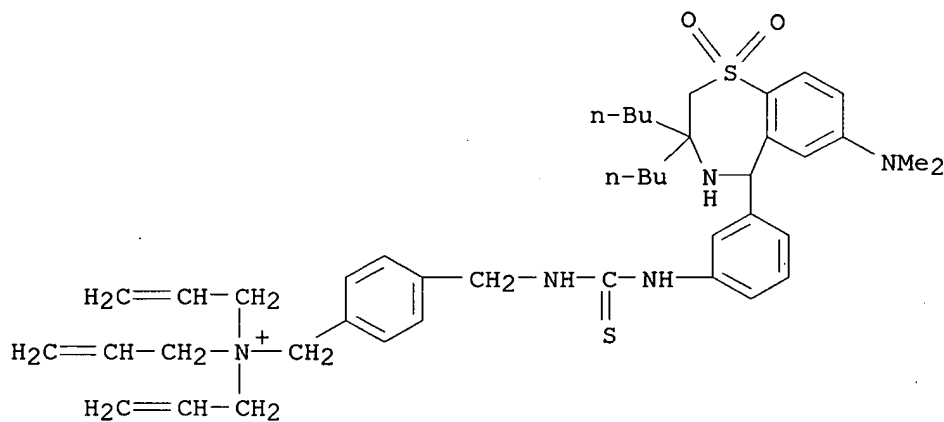
RN 864349-48-4 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N,N-diethyl-N-2-propenyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

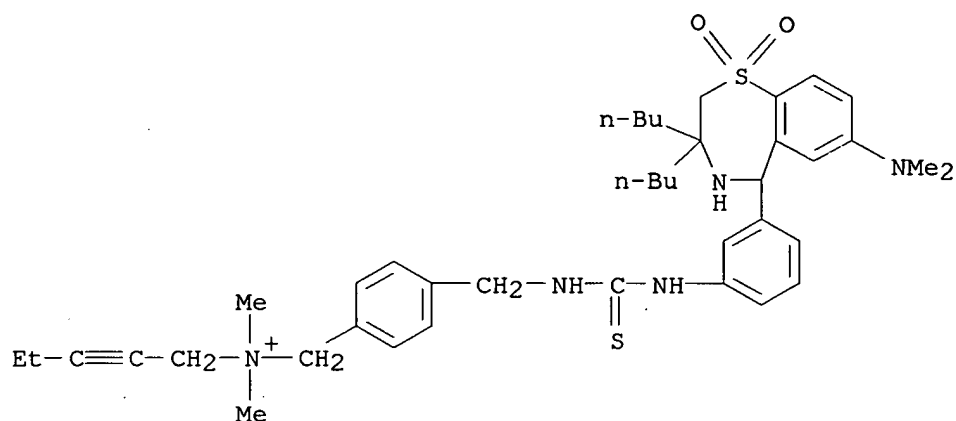
RN 864349-49-5 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N,N,N-tri-2-propenyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

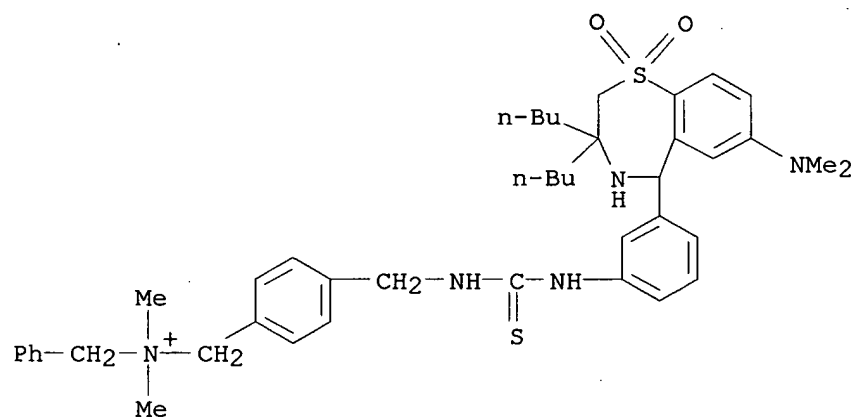
RN 864349-50-8 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N,N-dimethyl-N-2-pentynyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

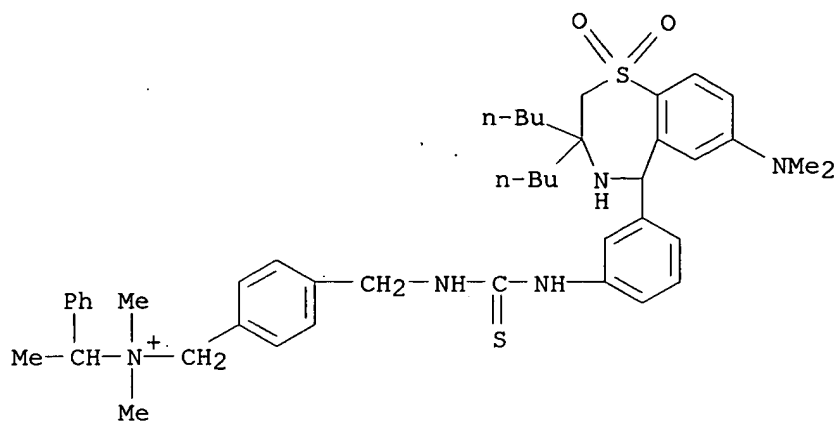
RN 864349-51-9 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N,N-dimethyl-N-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

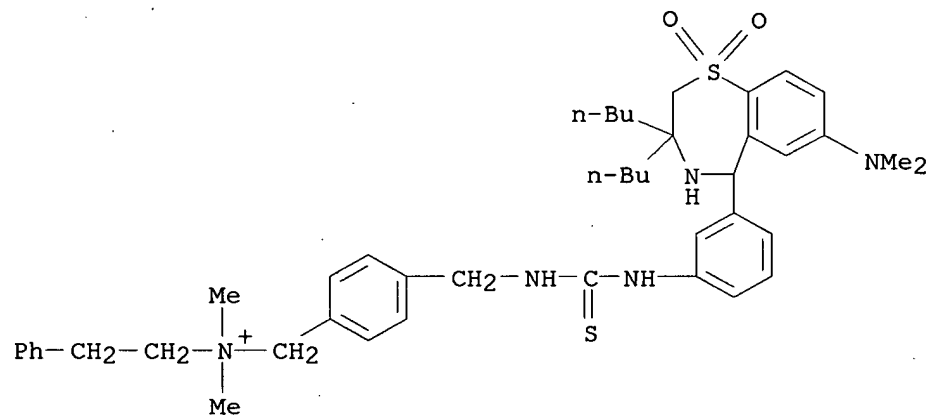
RN 864349-52-0 CAPLUS

CN Benzenemethanaminium, N-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-N,N,α-trimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 864349-53-1 CAPLUS

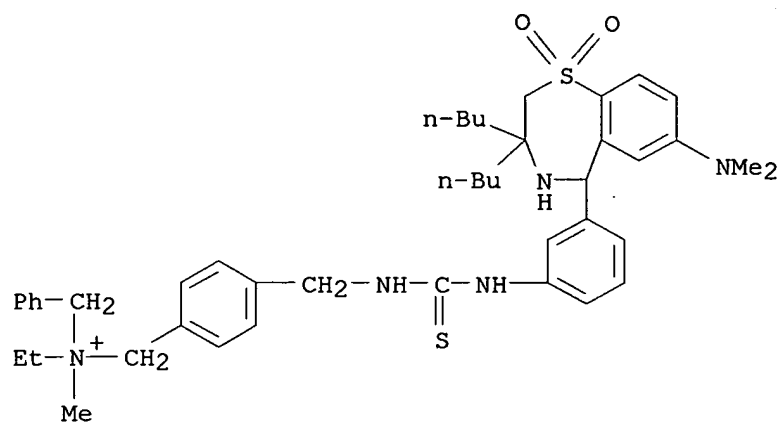
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● Br<sup>-</sup>

RN 864349-54-2 CAPLUS

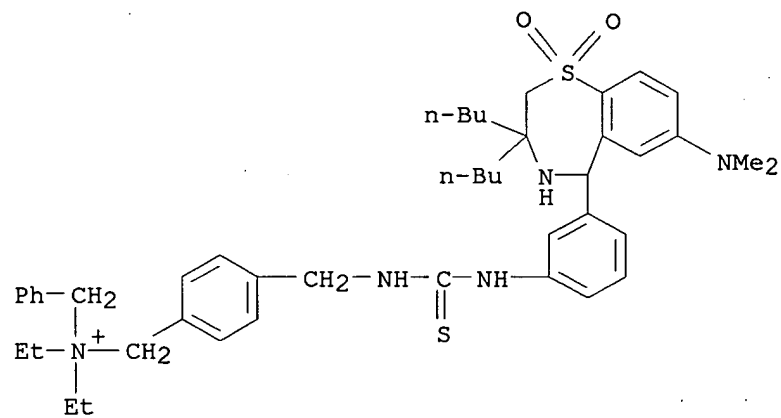
CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N-ethyl-N-methyl-N-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 864349-55-3 CAPLUS

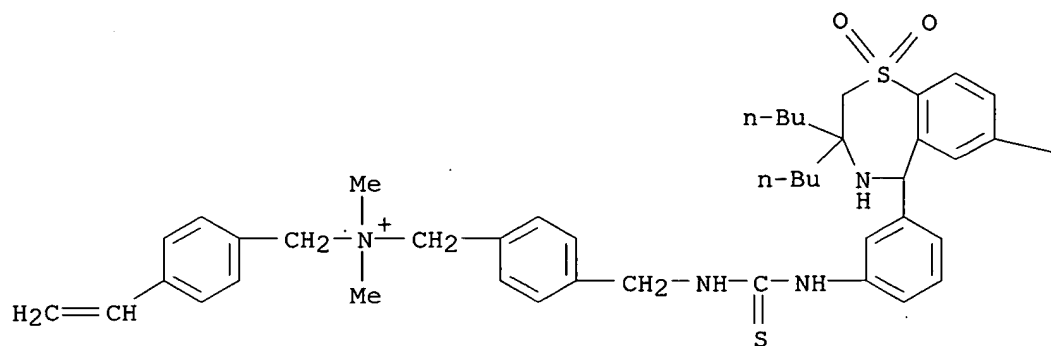
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RN 864349-56-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

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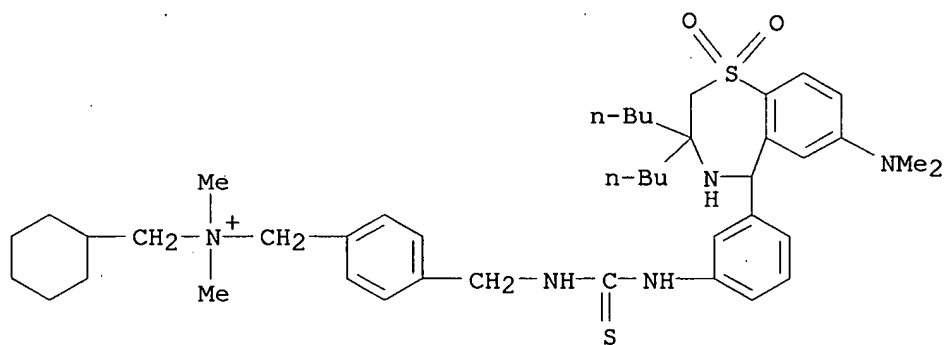
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PAGE 1-B

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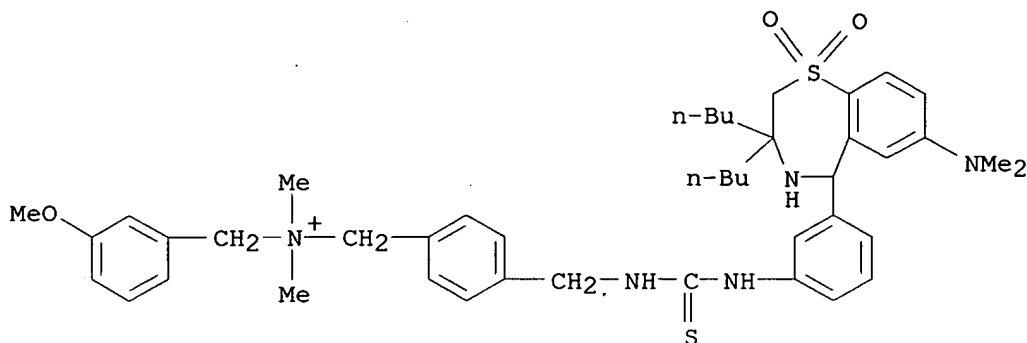
RN 864349-57-5 CAPLUS

CN Benzenemethanaminium, N-(cyclohexylmethyl)-4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]-N,N-dimethyl-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

RN 864349-58-6 CAPLUS

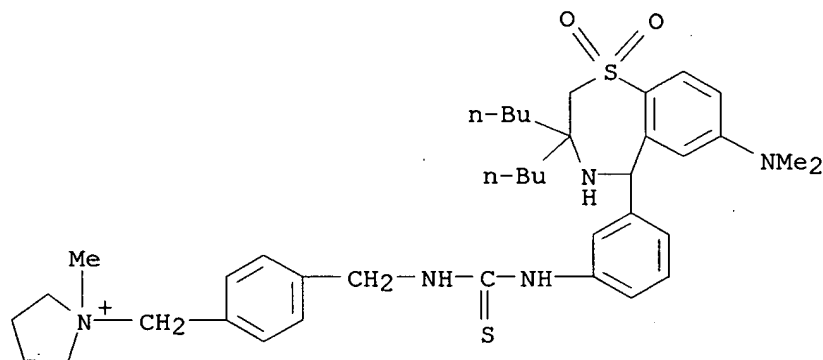
CN Benzenemethanaminium, N-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-3-methoxy-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 864349-59-7 CAPLUS

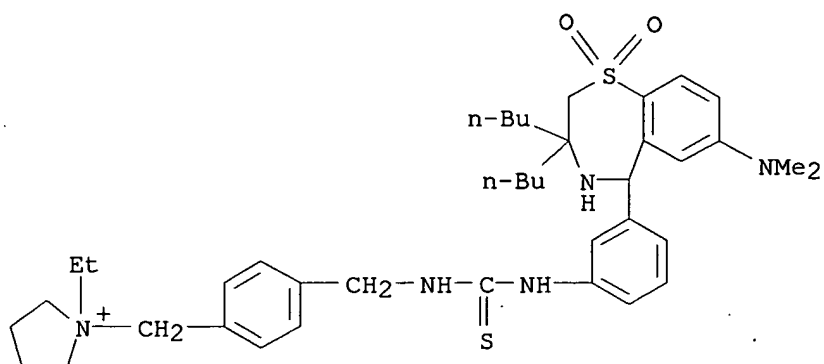
CN Pyrrolidinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-1-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 864349-60-0 CAPLUS

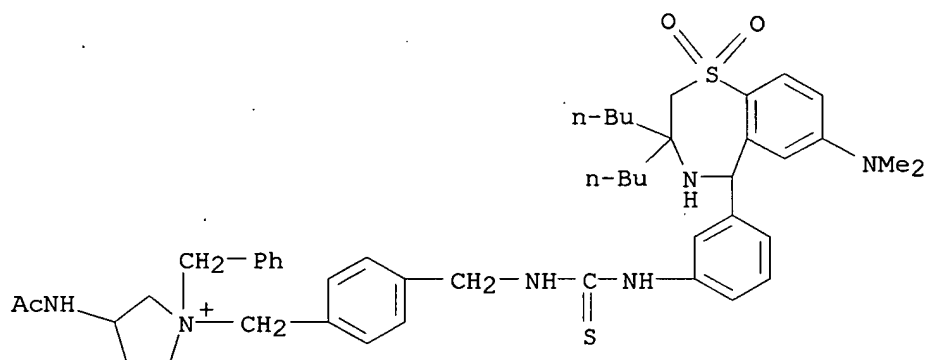
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● Br<sup>-</sup>

RN 864349-61-1 CAPLUS

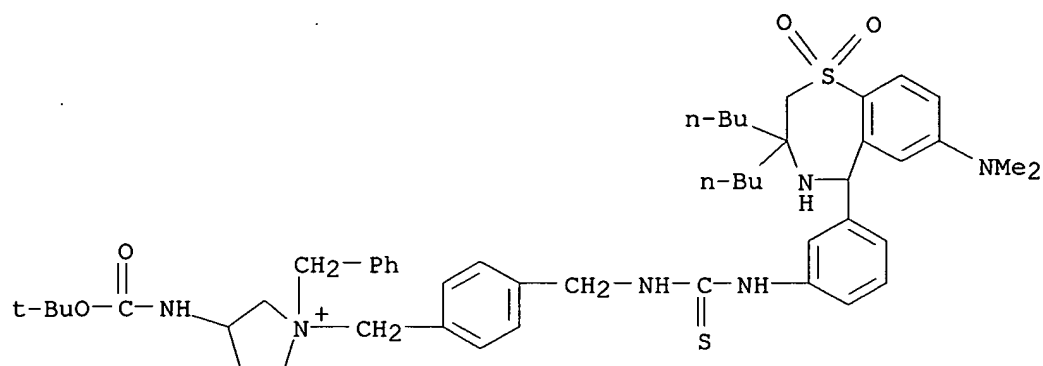
CN Pyrrolidinium, 3-(acetylamino)-1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

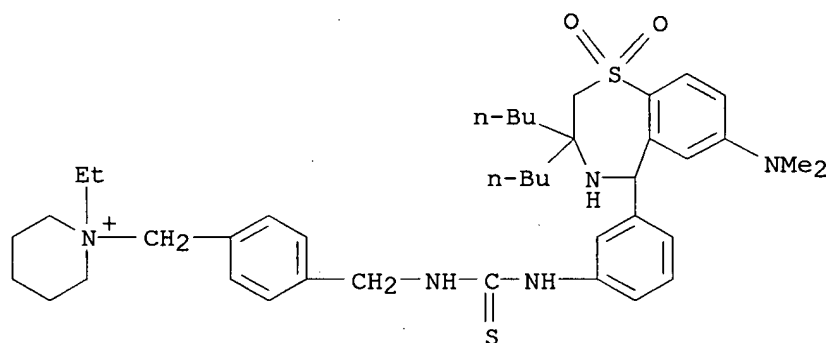
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CN Pyrrolidinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-3-[[[1,1-dimethylethoxy]carbonyl]amino]-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

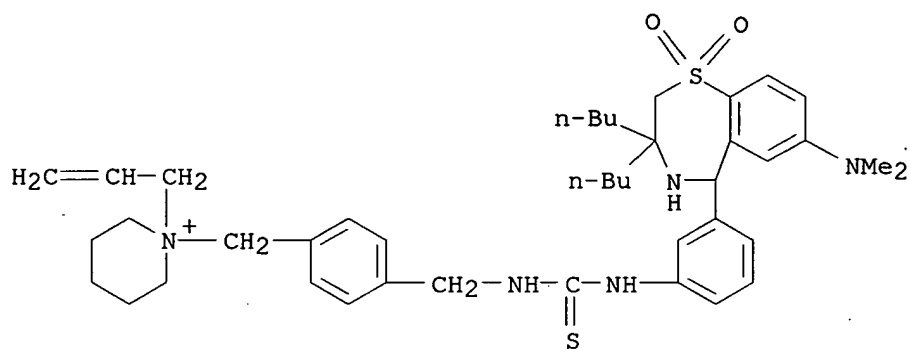
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CN Piperidinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-1-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

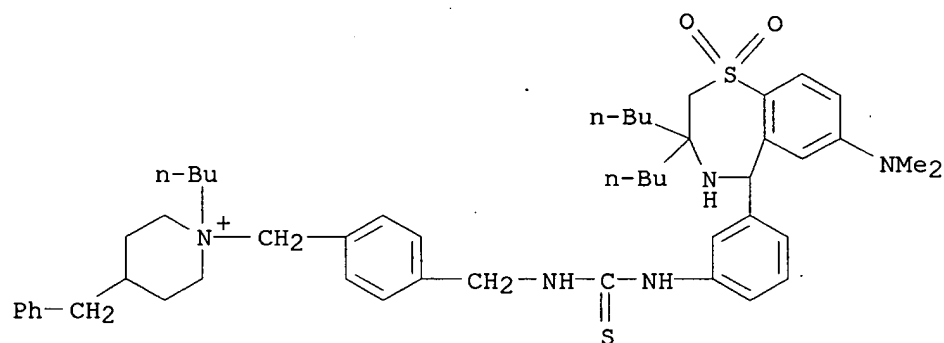
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CN Piperidinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-1-(2-propenyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

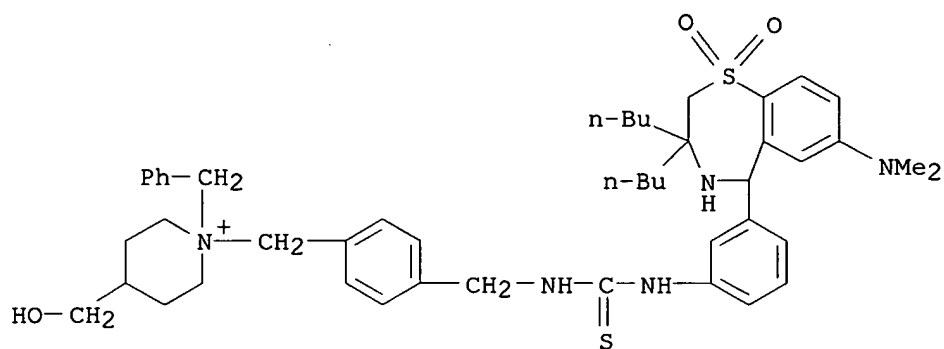
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CN Piperidinium, 1-butyl-1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

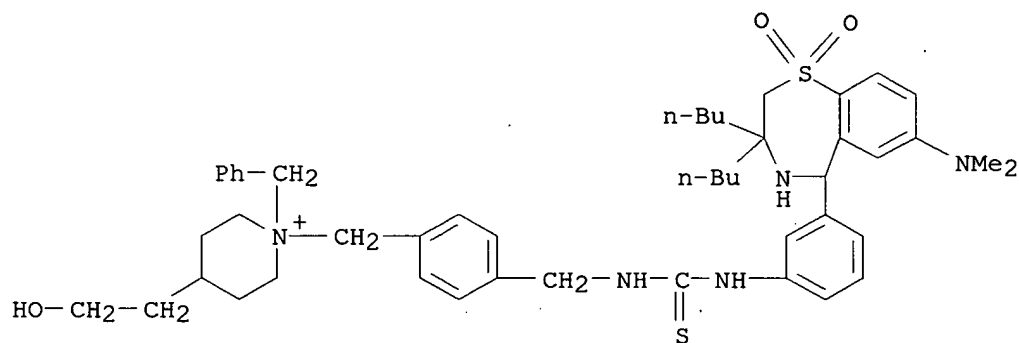
RN 864349-66-6 CAPLUS

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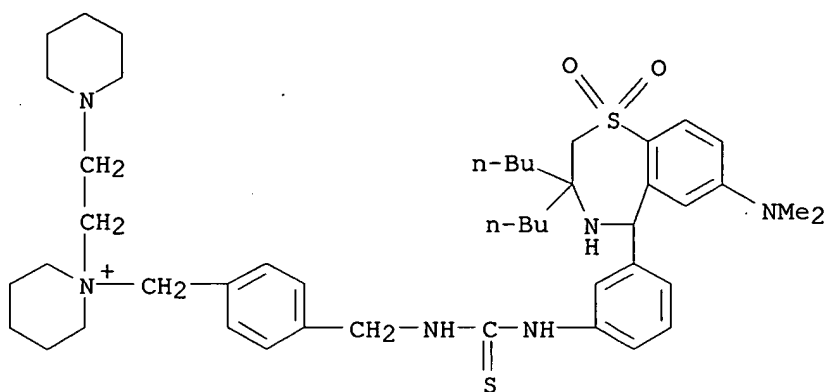
● Br<sup>-</sup>

RN 864349-67-7 CAPLUS  
 CN Piperidinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-(2-hydroxyethyl)-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



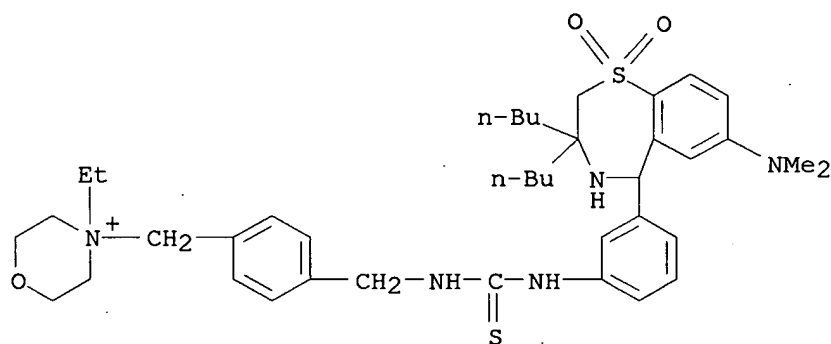
● Br<sup>-</sup>

RN 864349-68-8 CAPLUS  
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● Br<sup>-</sup>

RN 864349-69-9 CAPLUS

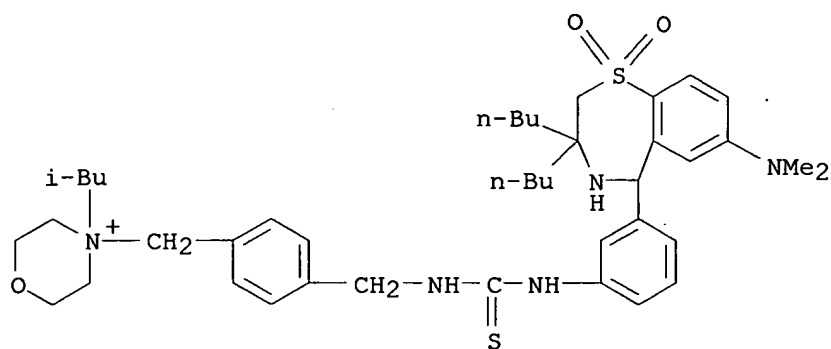
CN Morpholinium, 4-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 864349-70-2 CAPLUS

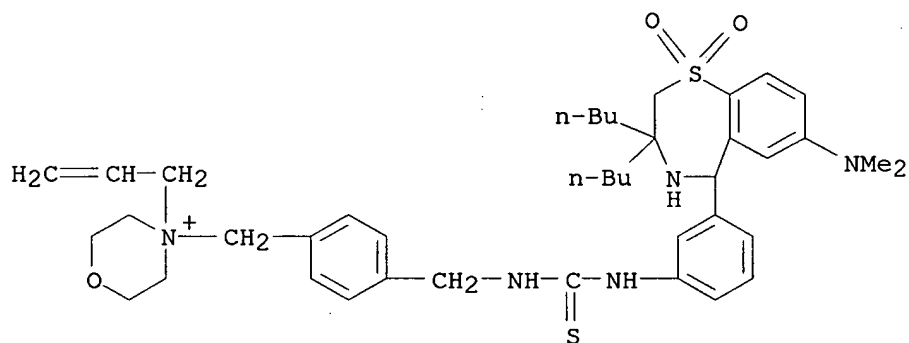
CN Morpholinium, 4-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-(2-methylpropyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

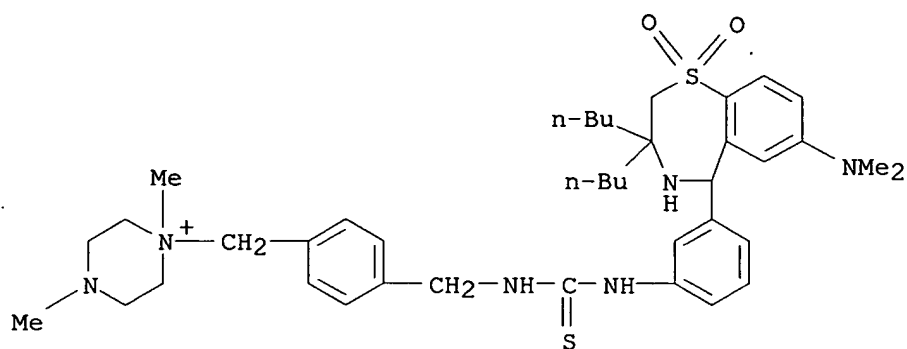
RN 864349-71-3 CAPLUS

CN Morpholinium, 4-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-(2-propenyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

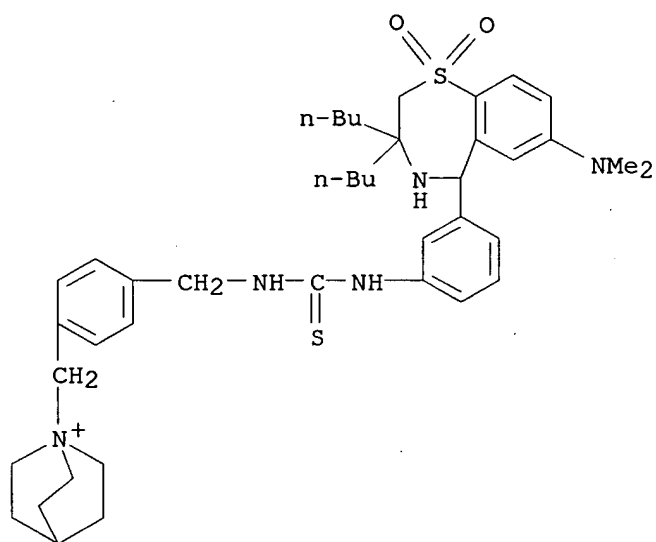
RN 864349-72-4 CAPLUS

CN Piperazinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-1,4-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

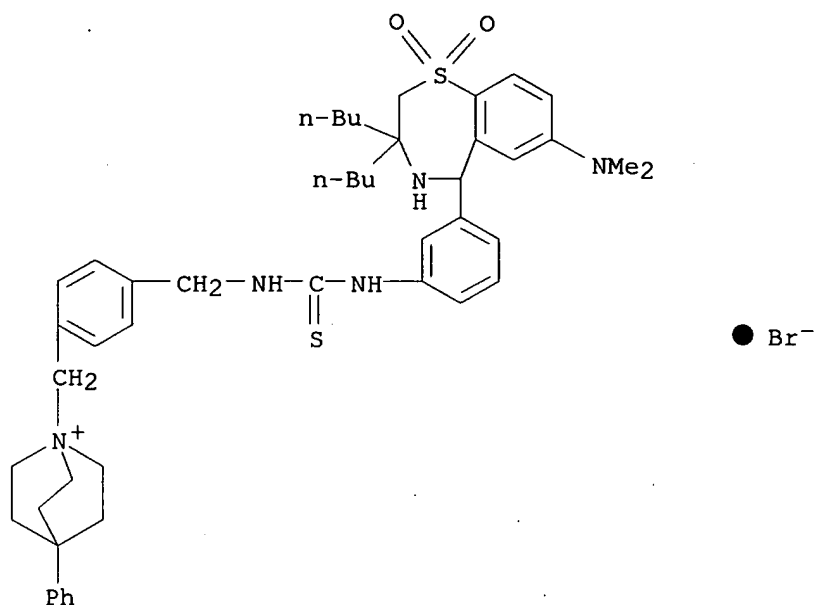
RN 864349-73-5 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

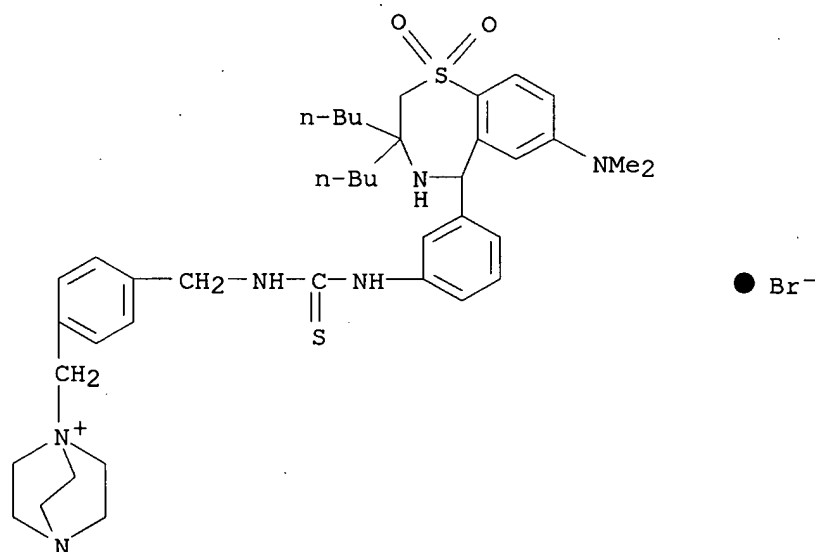
RN 864349-74-6 CAPLUS

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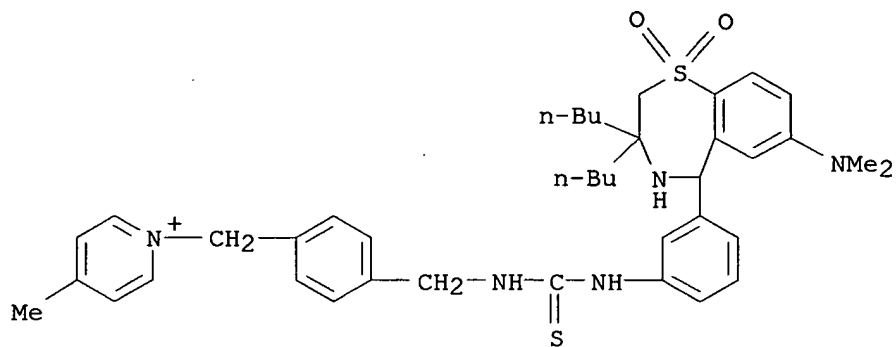
RN 864349-75-7 CAPLUS

CN 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-, bromide (9CI)  
(CA INDEX NAME)



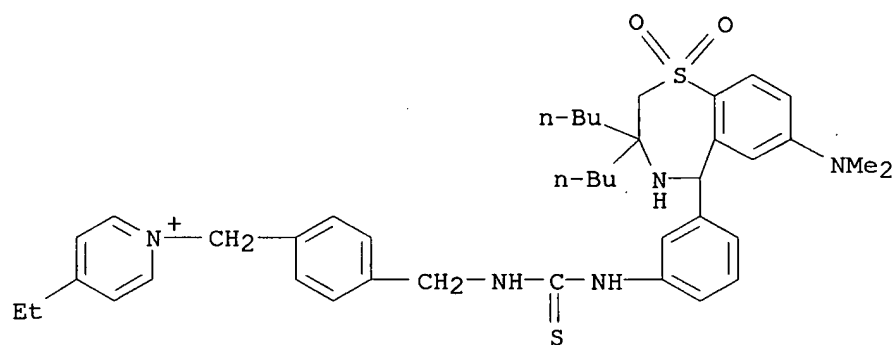
RN 864349-76-8 CAPLUS

CN Pyridinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

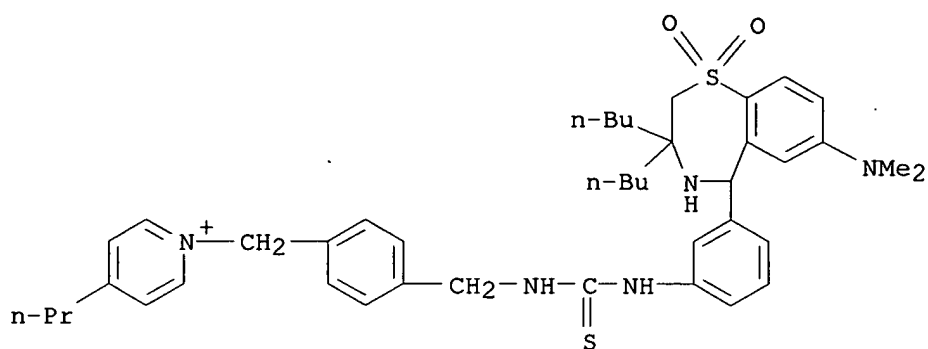
RN 864349-77-9 CAPLUS

CN Pyridinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 864349-78-0 CAPLUS

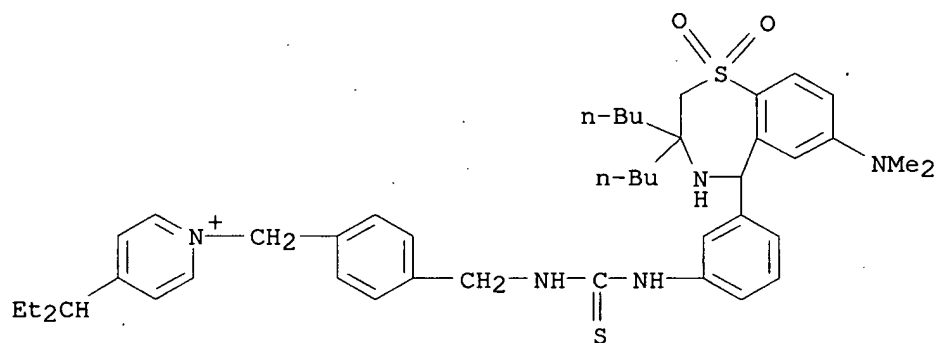
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● Br<sup>-</sup>

RN 864349-79-1 CAPLUS

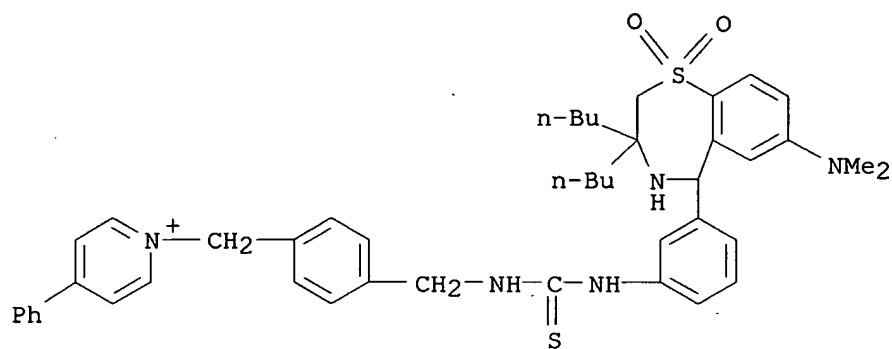
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● Br<sup>-</sup>

RN 864349-80-4 CAPLUS

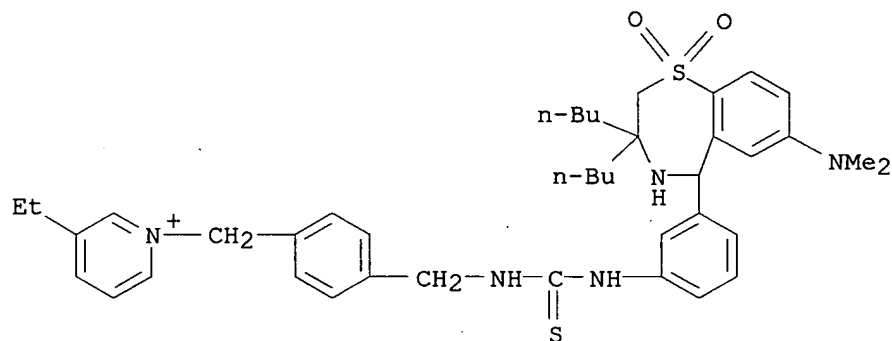
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● Br<sup>-</sup>

RN 864349-81-5 CAPLUS

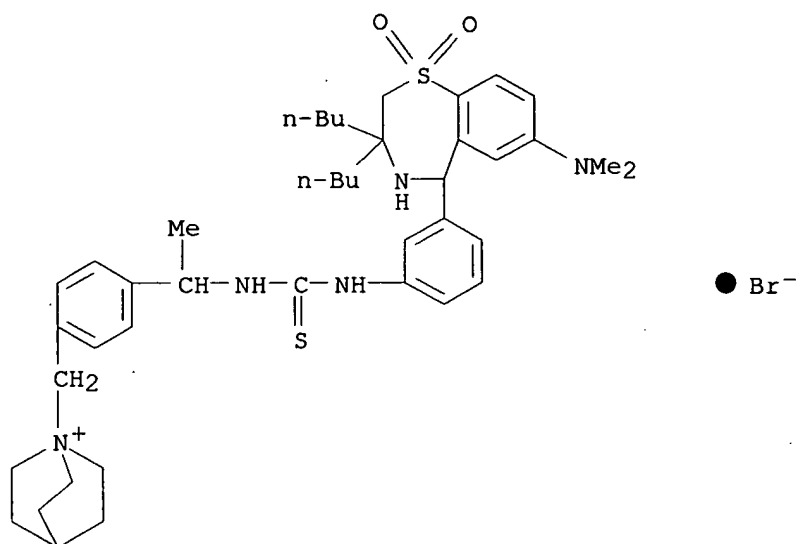
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● Br<sup>-</sup>

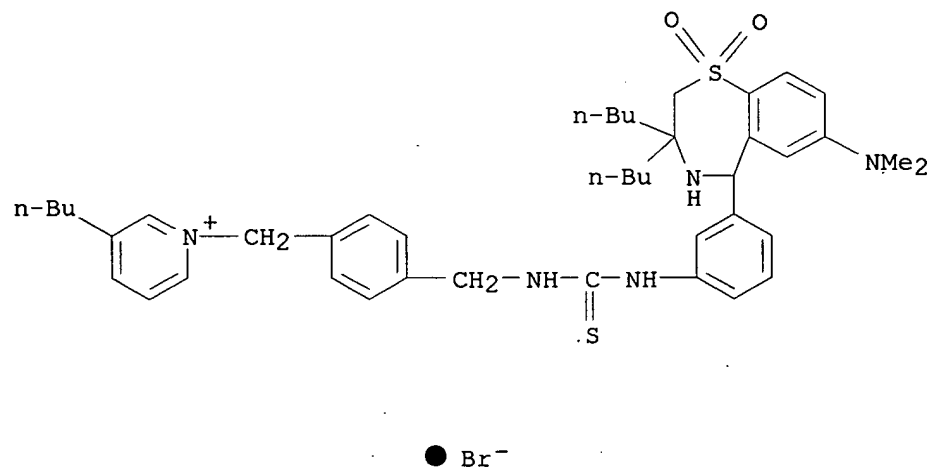
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CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[1-[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]ethyl]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



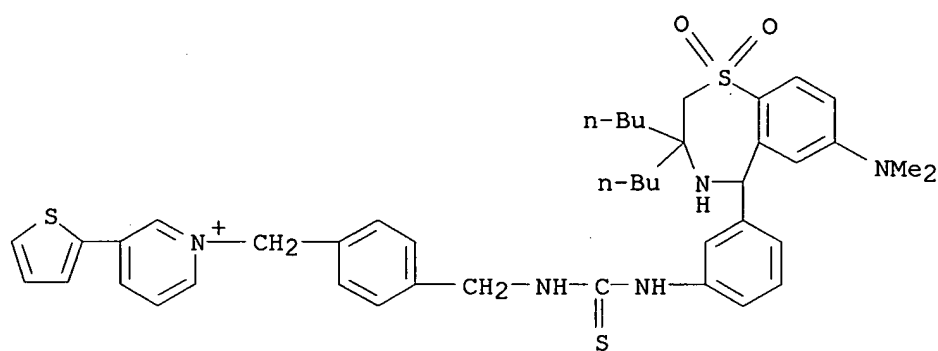
RN 864349-83-7 CAPLUS

CN Pyridinium, 3-butyl-1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



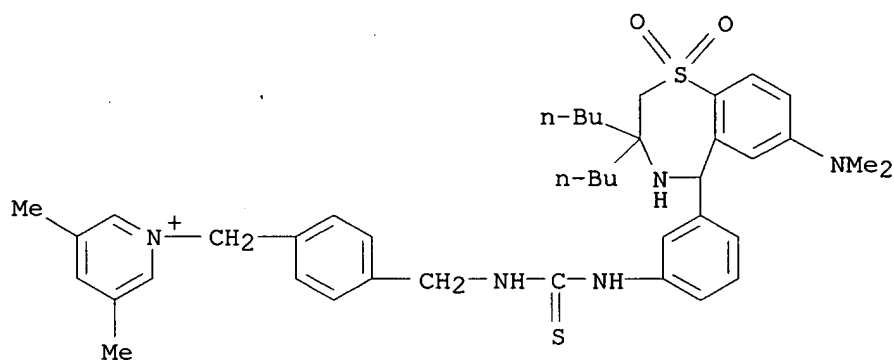
RN 864349-84-8 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-3-(2-thienyl)]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 864349-85-9 CAPLUS

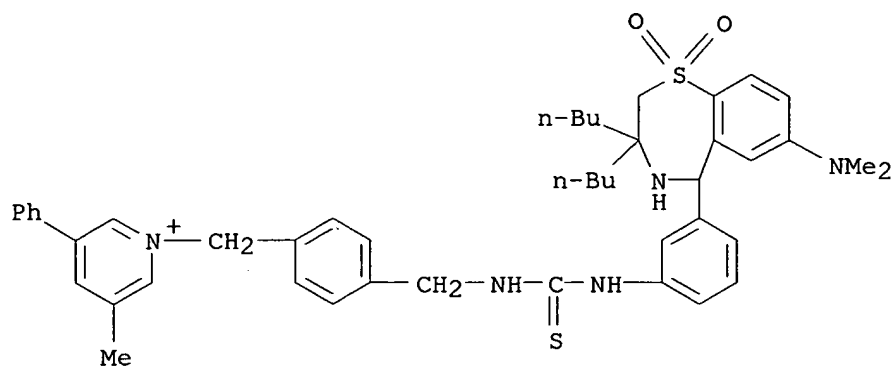
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● Br<sup>-</sup>

RN 864349-86-0 CAPLUS

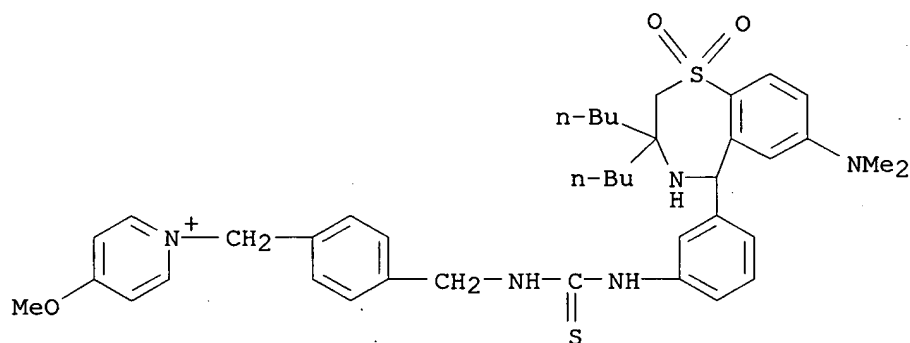
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● Br<sup>-</sup>

RN 864349-87-1 CAPLUS

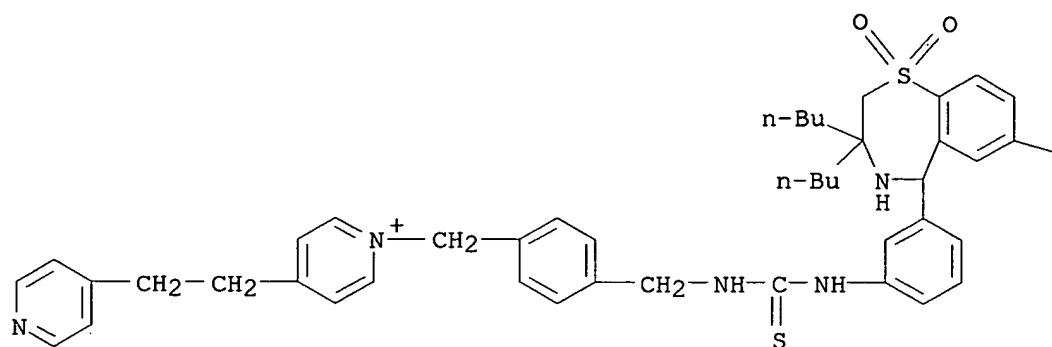
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● Br<sup>-</sup>

RN 864349-88-2 CAPLUS

CN Pyridinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxo-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-4-[2-(4-pyridinyl)ethyl]-, bromide (9CI) (CA INDEX NAME)

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● Br<sup>-</sup>

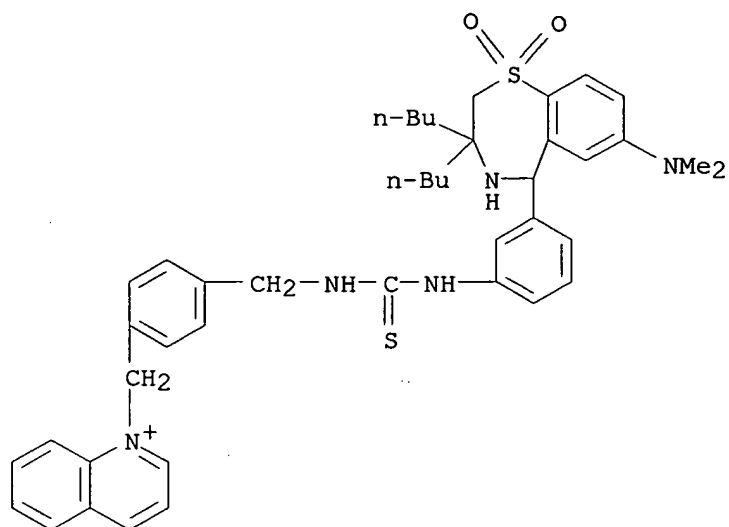
PAGE 1-B

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RN 864349-89-3 CAPLUS

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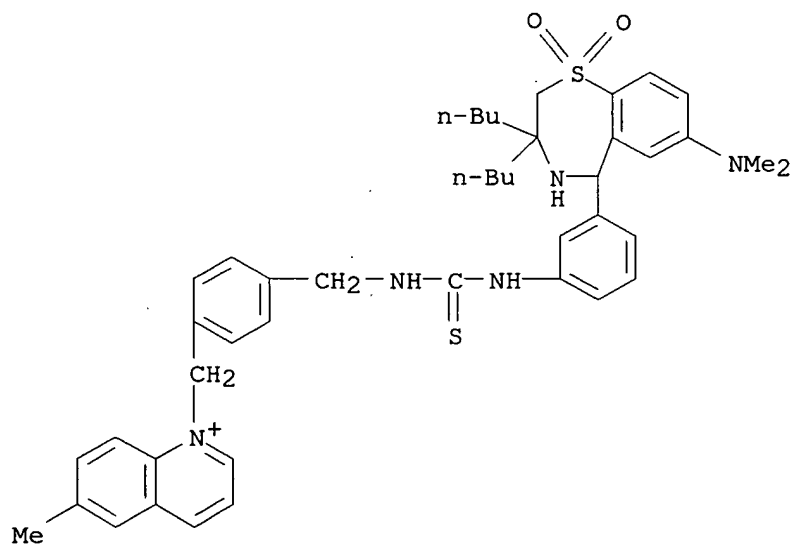


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RN 864349-90-6 CAPLUS  
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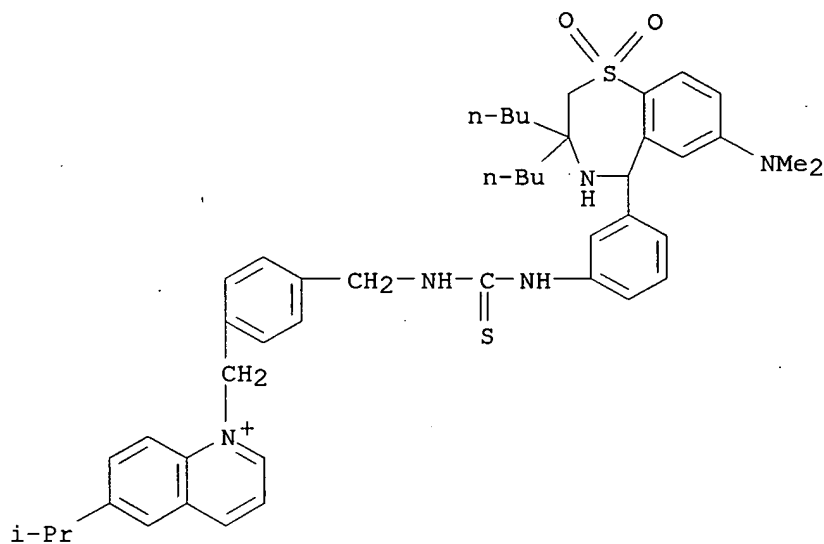
PAGE 2-A

● Br<sup>-</sup>

RN 864349-91-7 CAPLUS

CN Quinolinium, 1-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-6-(1-methylethyl)-, bromide (9CI) (CA INDEX NAME)

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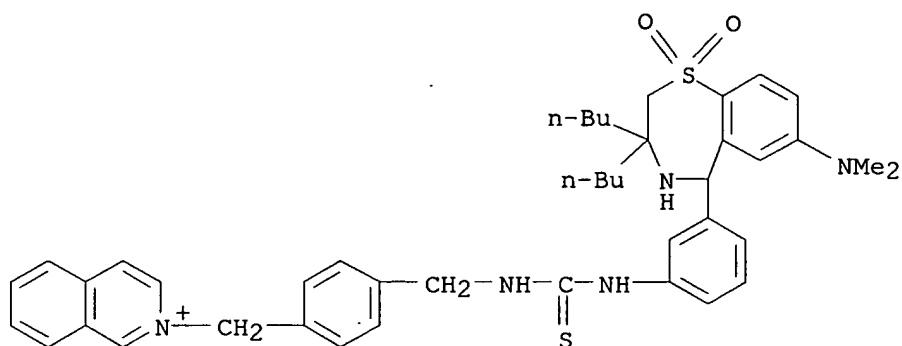


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● Br<sup>-</sup>

RN 864349-92-8 CAPLUS

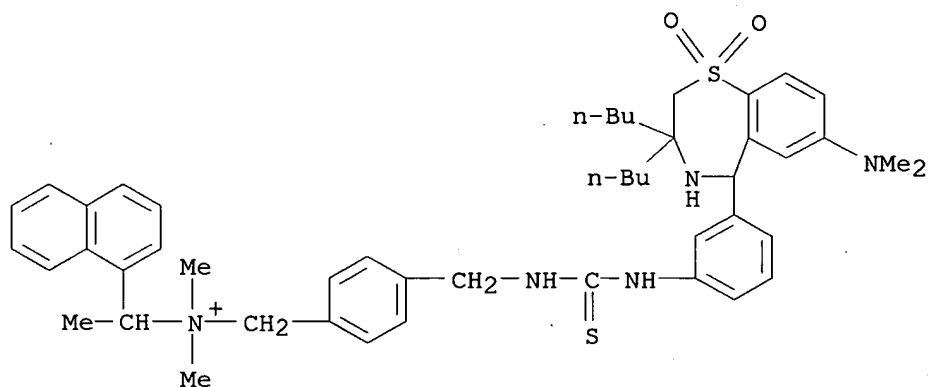
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● Br<sup>-</sup>

RN 864349-93-9 CAPLUS

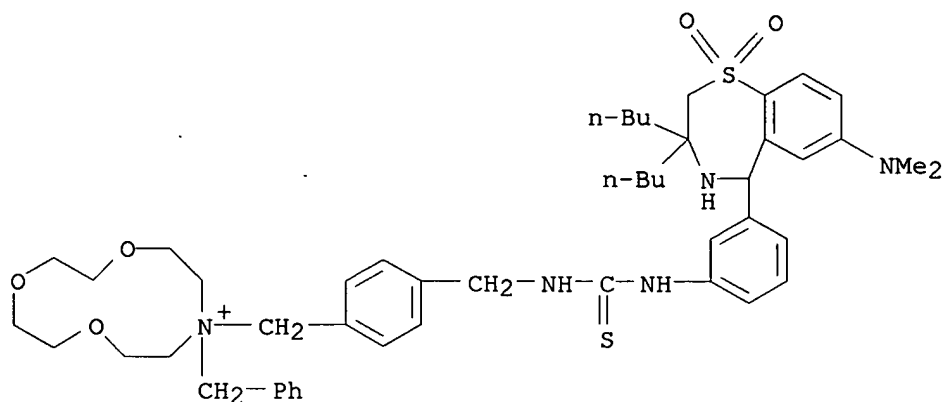
CN 1-Naphthalenemethanaminium, N-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-N,N,α-trimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

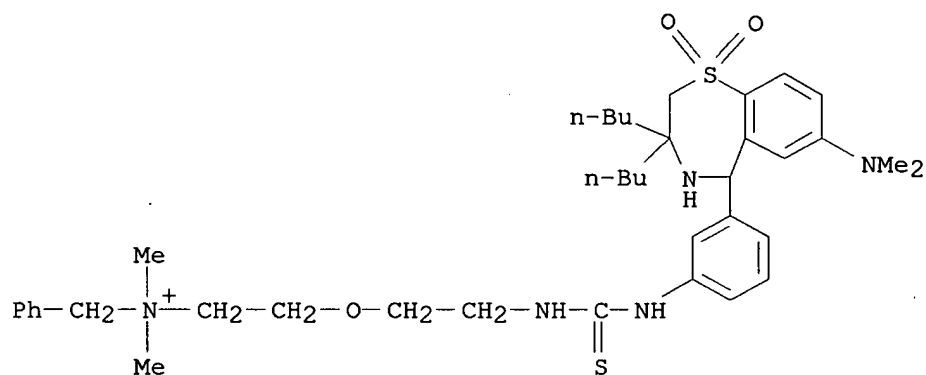
RN 864349-94-0 CAPLUS

CN 1,4,7-Trioxa-10-azoniacyclododecanium, 10-[[4-[[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]methyl]phenyl]methyl]-10-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

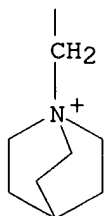
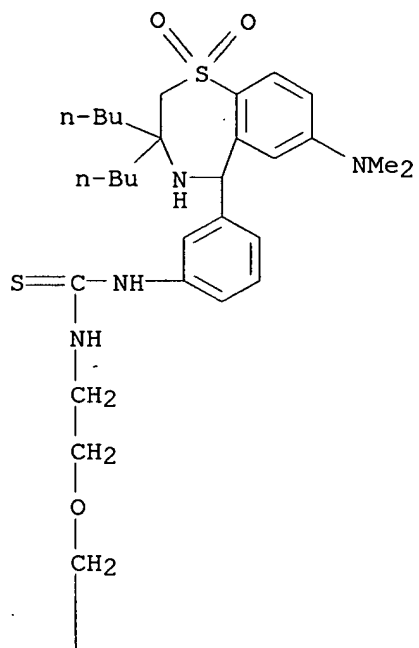
RN 864349-95-1 CAPLUS

CN Benzenemethanaminium, N-[2-[2-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]ethoxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

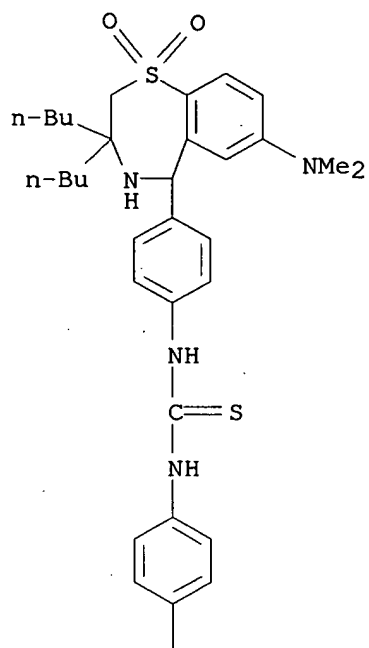
RN 864349-96-2 CAPLUS

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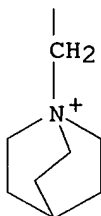


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PAGE 1-A

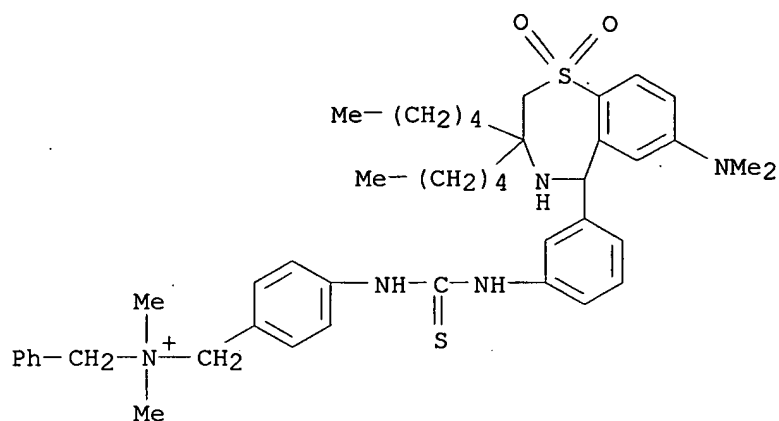


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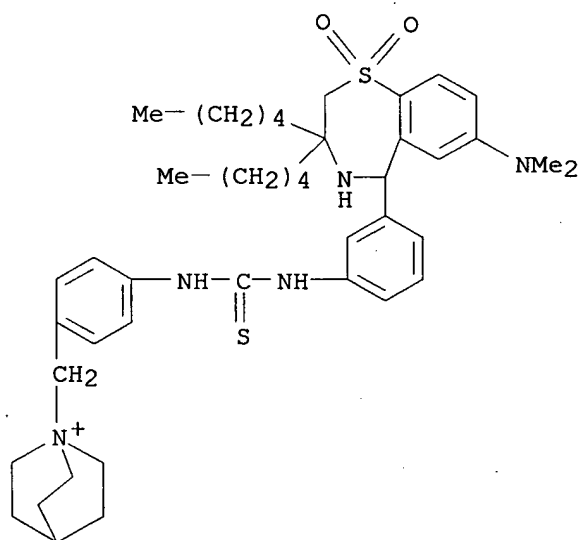
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● Br<sup>-</sup>

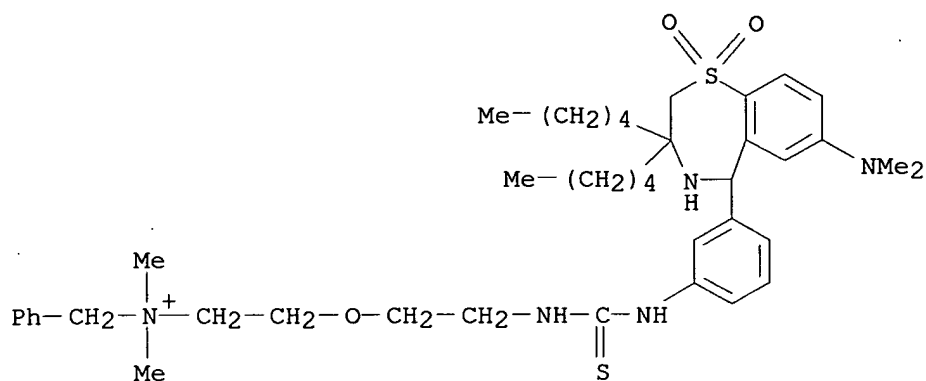
RN 864349-99-5 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-3,3-dipentyl-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 864350-00-5 CAPLUS

CN Benzenemethanaminium, N-[2-[2-[[[3-[7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-3,3-dipentyl-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]ethoxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

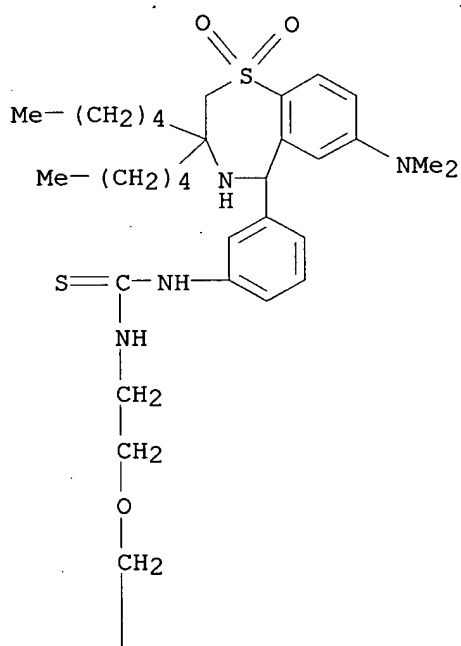


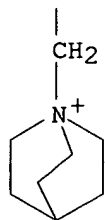
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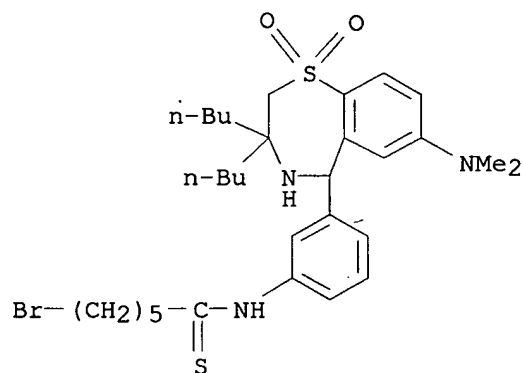
IT 670278-63-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzothiazepine and benzothiepine compds. for prevention and treatment of hyperlipemia and lowering cholesterol)

RN 670278-63-4 CAPLUS

CN Hexanethioamide, 6-bromo-N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

14

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/256,198

14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:203819 CAPLUS

DOCUMENT NUMBER: 140:253584

TITLE: Preparation of novel 2,3,4,5-tetrahydro-5-(aminophenyl)-1,4-benzothiazepine-1,1-dioxide quaternary ammonium compounds as inhibitors of ileal bile acid transporter

INVENTOR(S): Sasahara, Takehiko; Mohri, Mitsunobu

PATENT ASSIGNEE(S): Asahi Kasei Pharma Corporation, Japan

SOURCE: PCT Int. Appl., 365 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

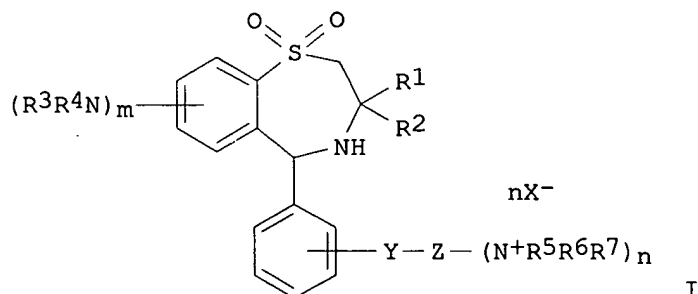
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PRIORITY APPLN. INFO.:			JP 2002-248586	A 20020828
			JP 2002-364725	A 20021217
			US 2002-407291P	P 20020903
			US 2002-434416P	P 20021219
			WO 2003-JP10980	W 20030828

OTHER SOURCE(S): MARPAT 140:253584

GI



AB The benzothiazepine compound having a thioamide bond and a quaternary ammonium substituent as represented by the following general formula [I];

R1, R2 = C1-10 alkyl; m = 1, 2; R3, R4 = C1-5 alkyl; Y = NHC(S), NHC(S)NH, NHC(S)O; Z = C2-10 alkylene or alkenylene wherein  $\geq 1$  methylene groups in Z are optionally substituted by phenylene or O; n = 1, 2; R5, R6, R7 = each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl, etc.; or (N+R5R6R7)n = (un)substituted C4-9 mono- or bicyclo ammonium, pyridinium, quinolinium, or isoquinolinium ring, etc.] are prepared. These compds. provide drugs useful as hypocholesteremics or as preventives and remedies for hyperlipemia, arteriosclerosis, syndrome X, hepatopathy accompanying cholestasis (in particular, primary biliary cirrhosis, primary sclerosing cholangitis, etc.), obesity, fat liver, or fatty hepatitis, each containing as the active ingredient the benzothiazepine compound I inhibiting an ileal bile acid transporter.

IT 670276-97-8P 670276-98-9P 670276-99-0P  
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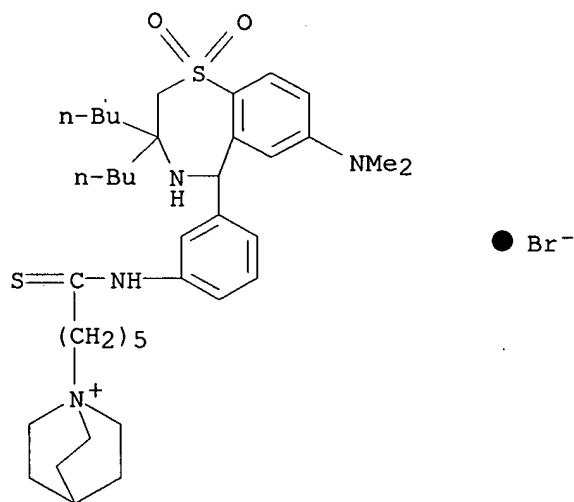
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel tetrahydro(aminophenyl)benzothiazepine dioxide quaternary ammonium compds. as inhibitors of ileal bile acid transporter and preventives or remedies for diseases)

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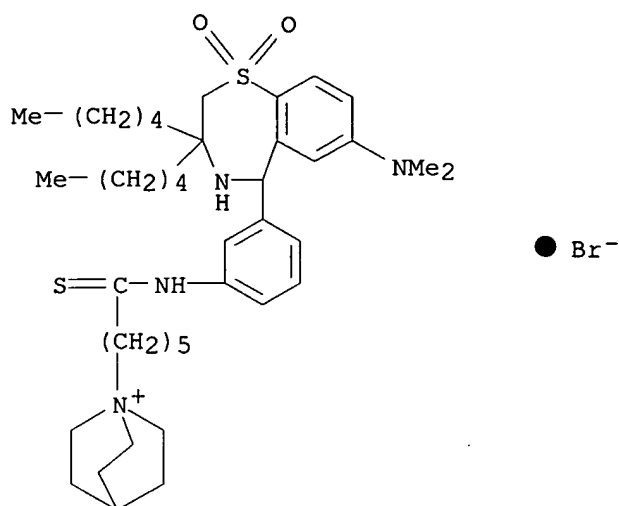
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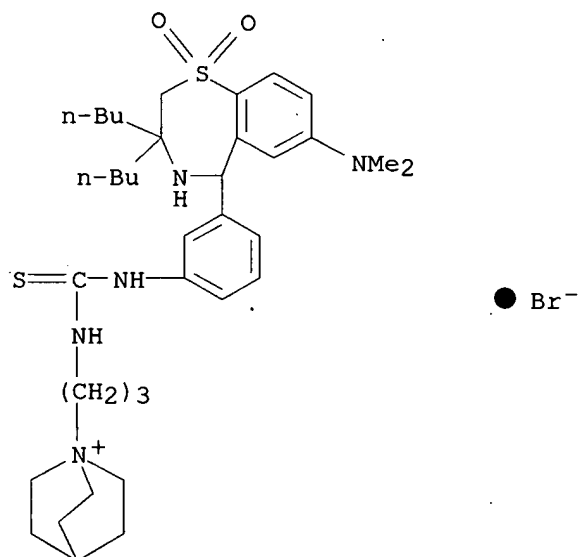
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RN 670276-99-0 CAPLUS

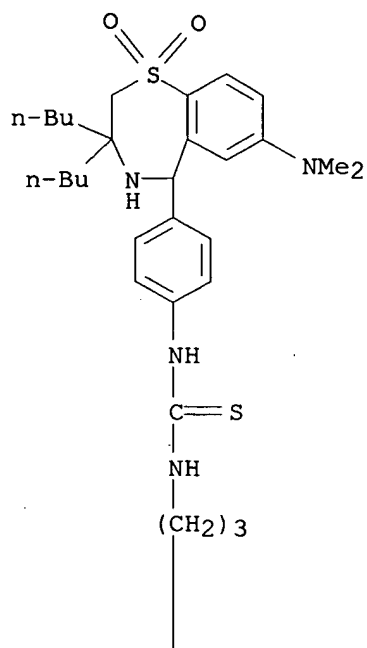
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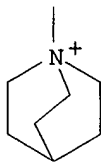
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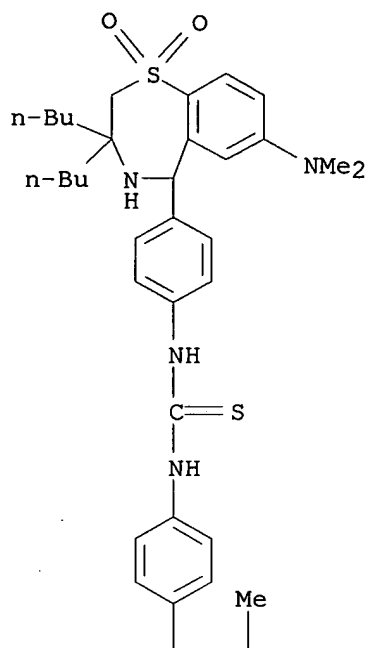
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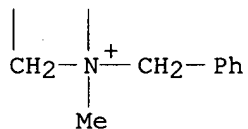
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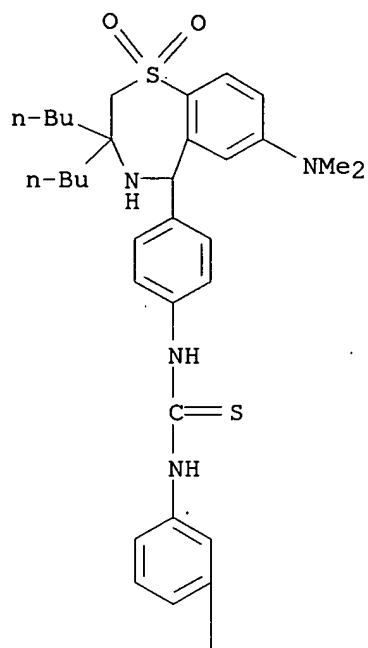
PAGE 2-A



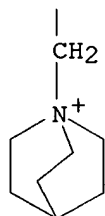
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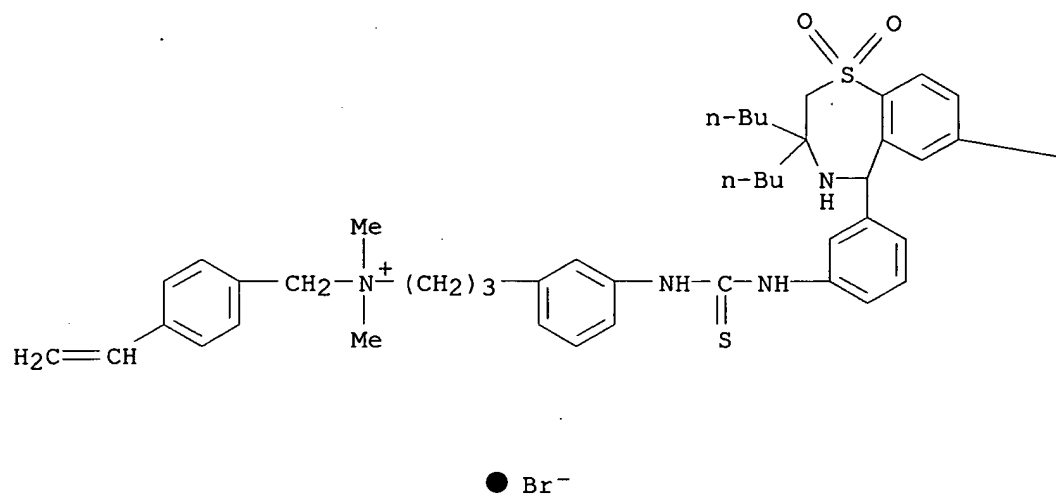


PAGE 2-A

● Br<sup>-</sup>

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PAGE 1-A

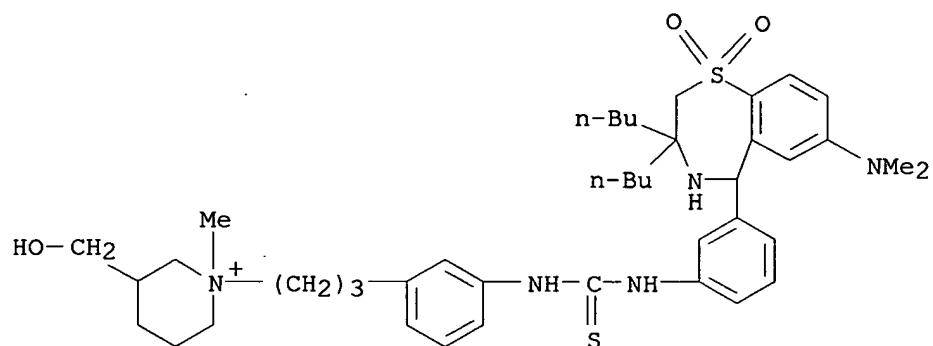


PAGE 1-B

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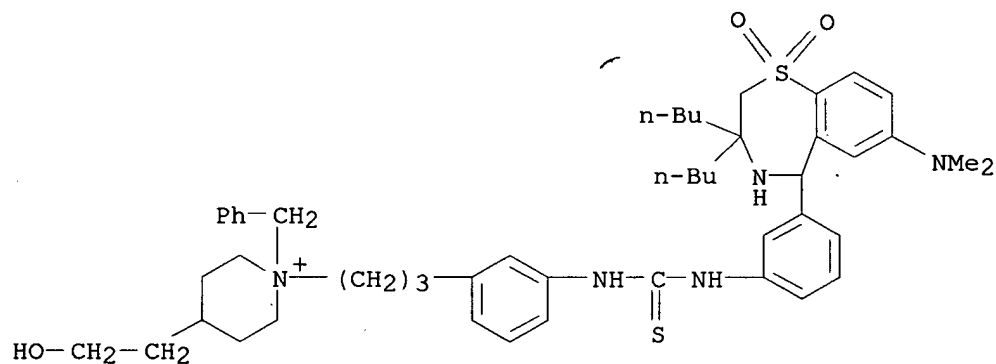
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● Br<sup>-</sup>

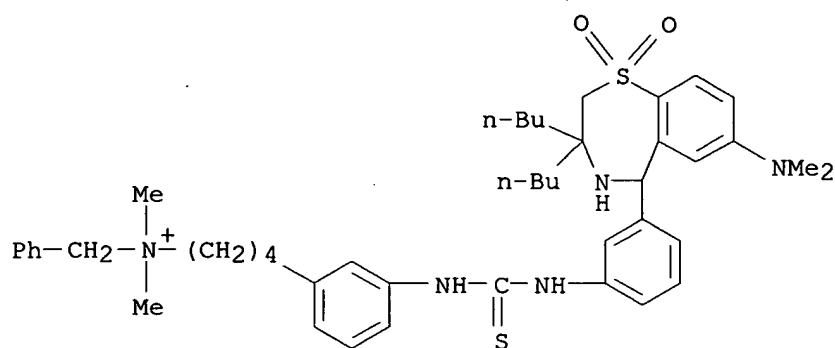
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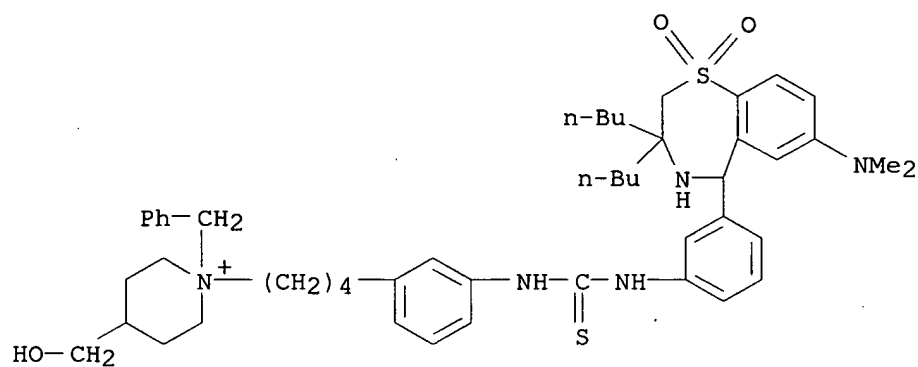
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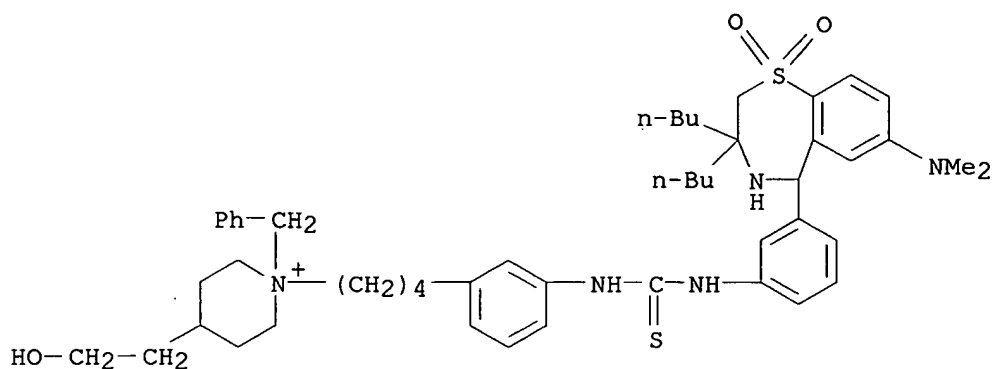
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● Br<sup>-</sup>

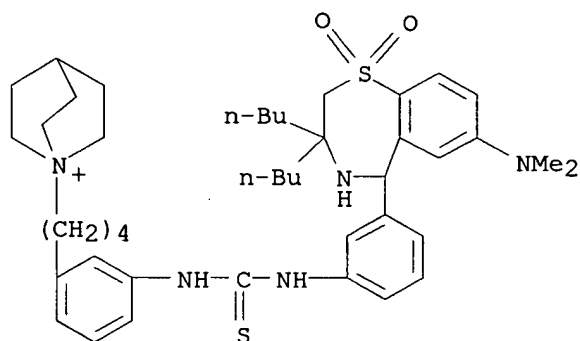
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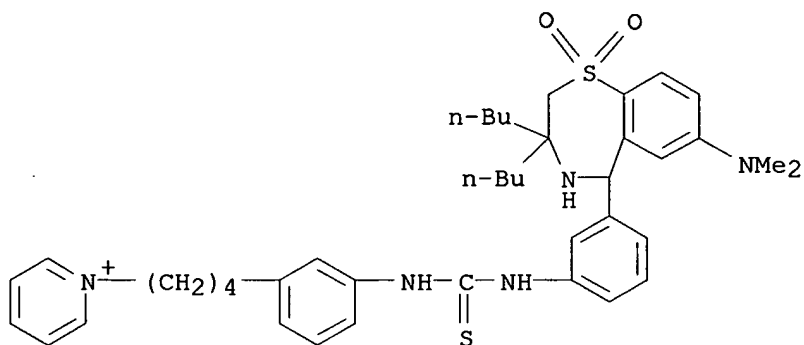
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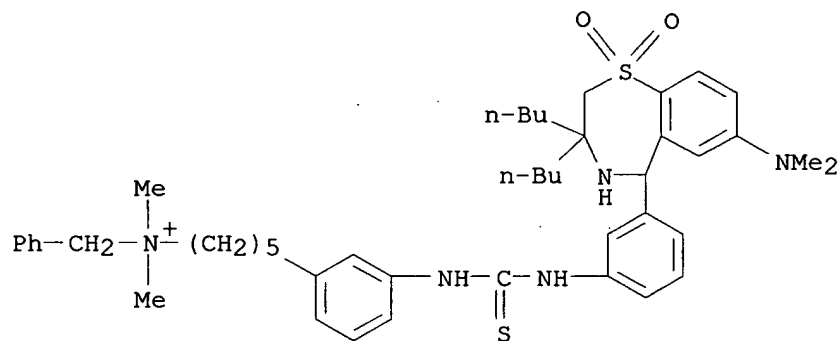
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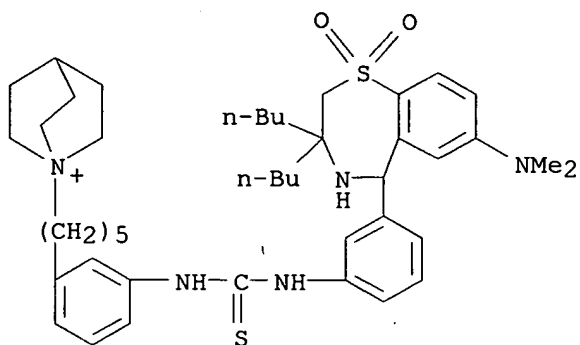
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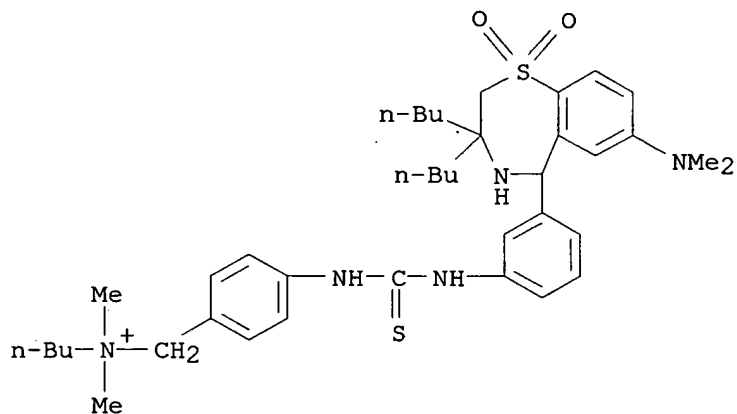
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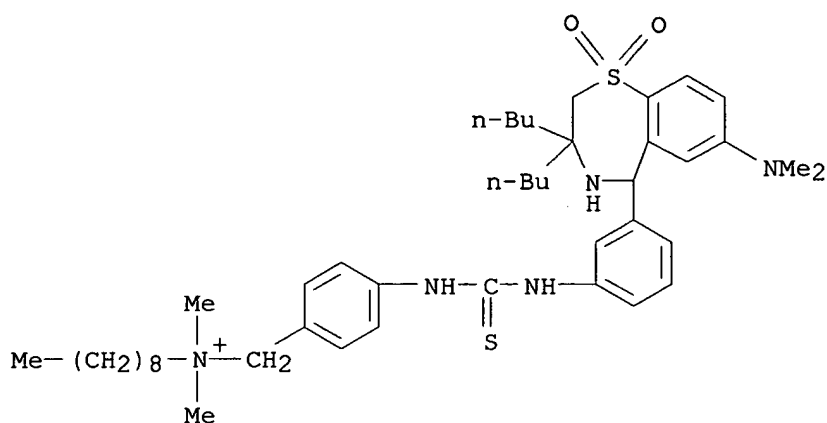
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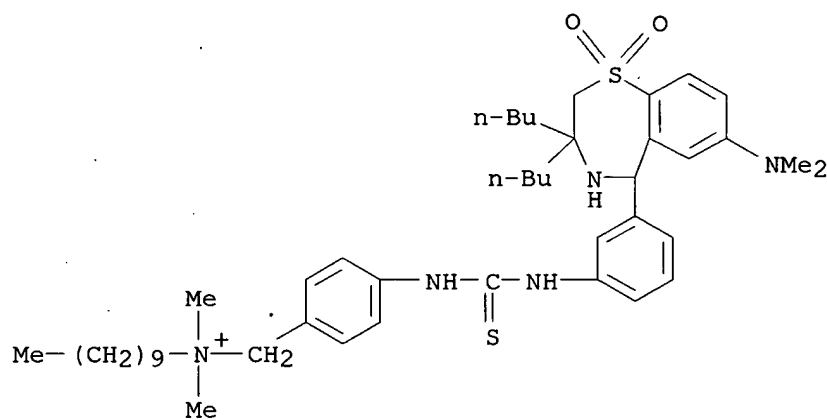
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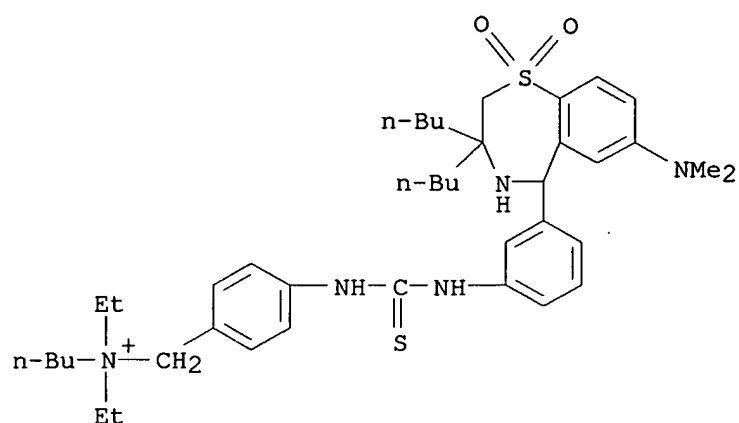
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 CN Benzenemethanaminium, N-decyl-4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

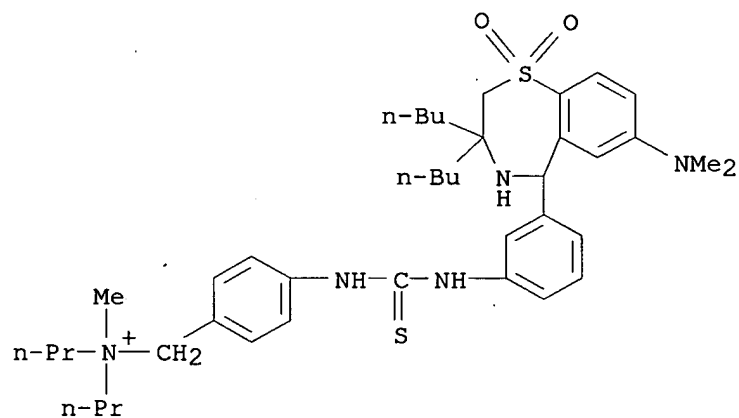


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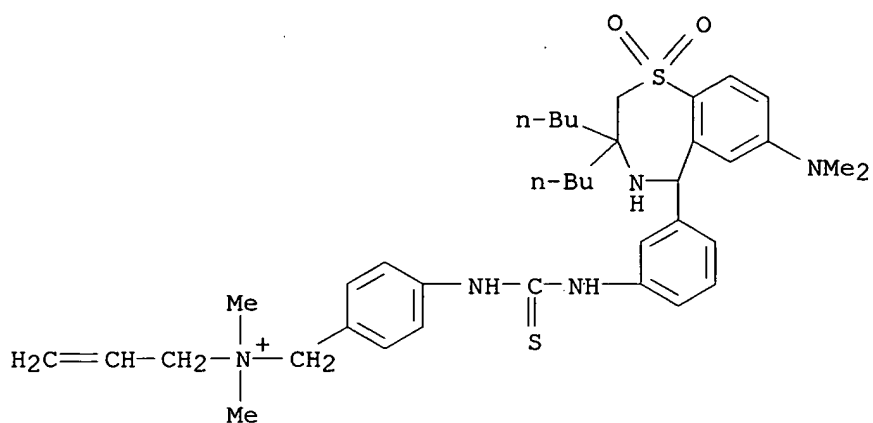
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 CN Benzenemethanaminium, N-butyl-4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-diethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-17-5 CAPLUS  
 CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-methyl-N,N-dipropyl-, bromide (9CI) (CA INDEX NAME)

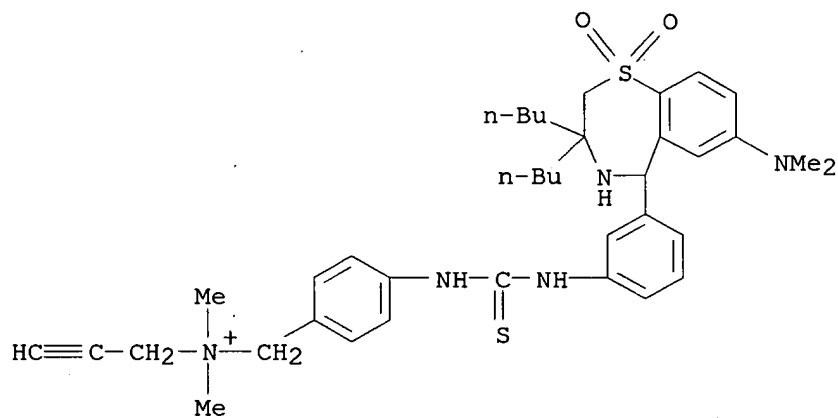
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● Br<sup>-</sup>

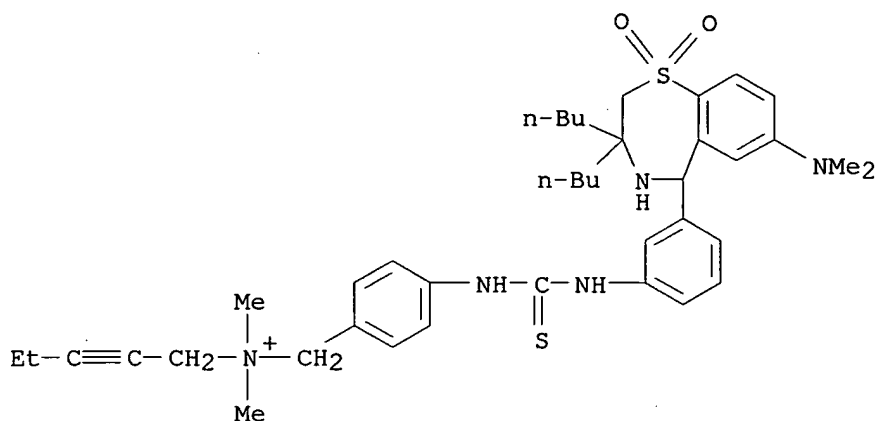
RN 670277-19-7 CAPLUS

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● Br<sup>-</sup>

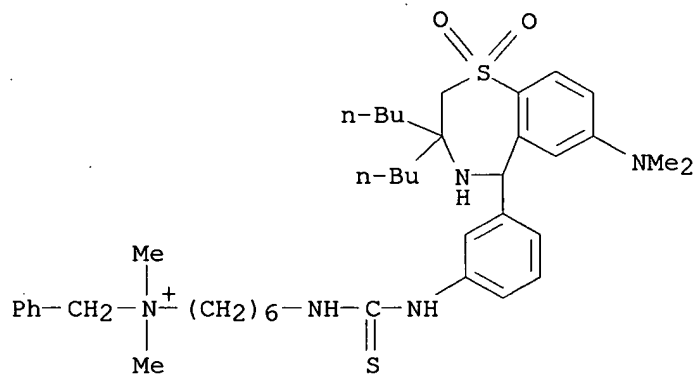
RN 670277-20-0 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-2-pentynyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

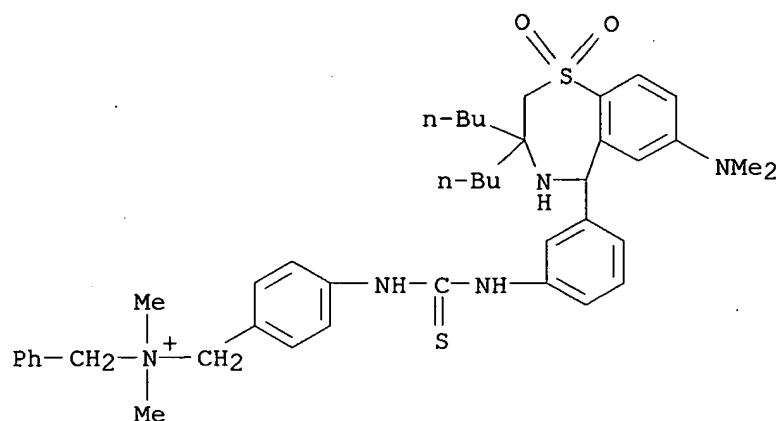
RN 670277-21-1 CAPLUS

CN Benzenemethanaminium, N-[6-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]hexyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

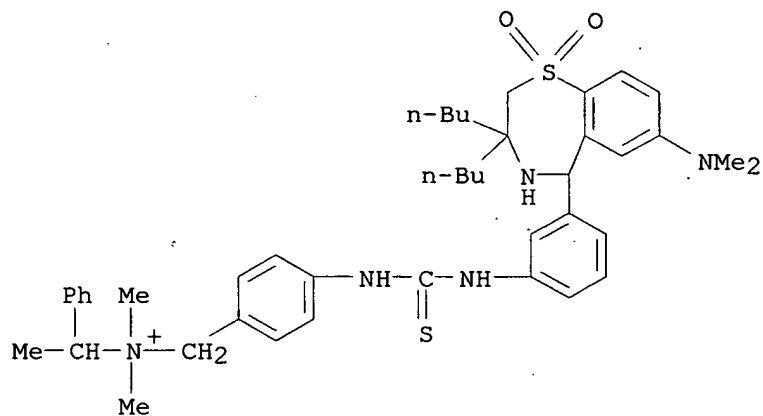
RN 670277-22-2 CAPLUS

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● Br<sup>-</sup>

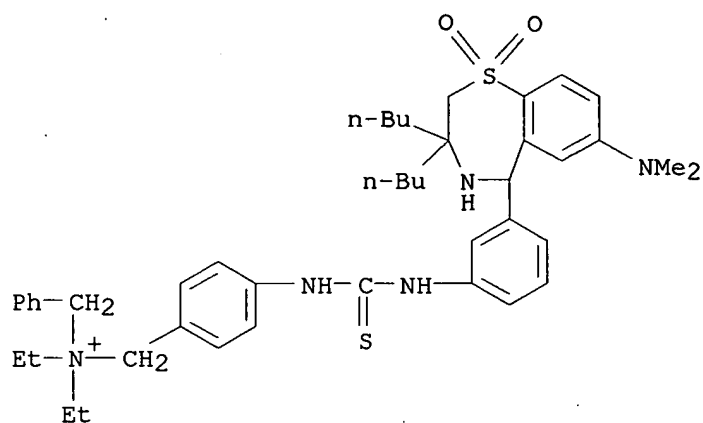
RN 670277-23-3 CAPLUS

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● Br<sup>-</sup>

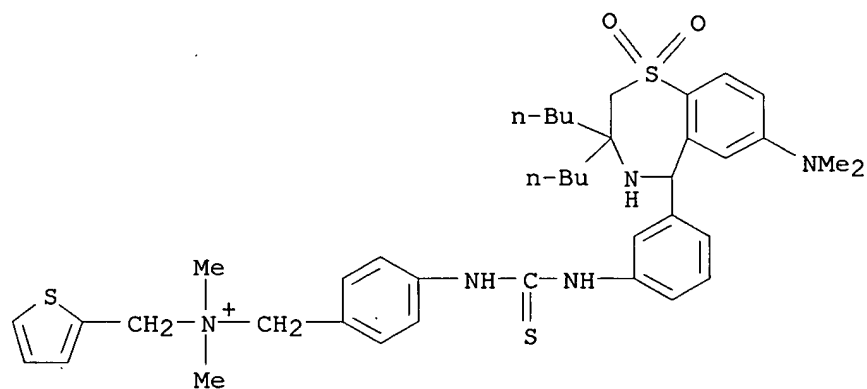
RN 670277-24-4 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-diethyl-N-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

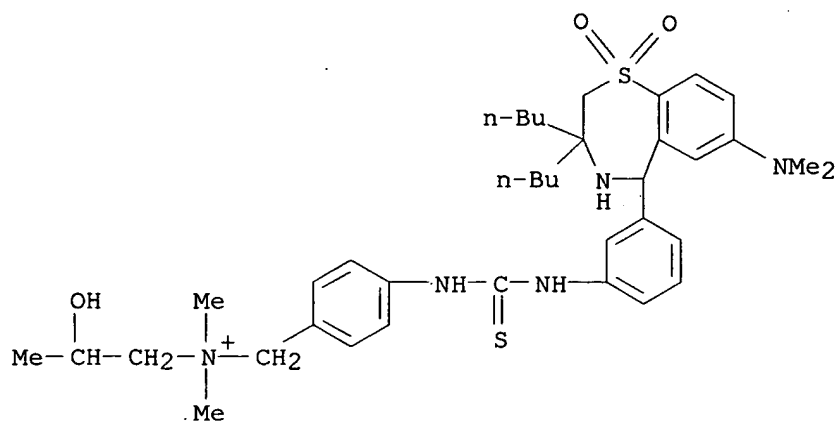
RN 670277-25-5 CAPLUS

CN 2-Thiophenemethanaminium, N-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

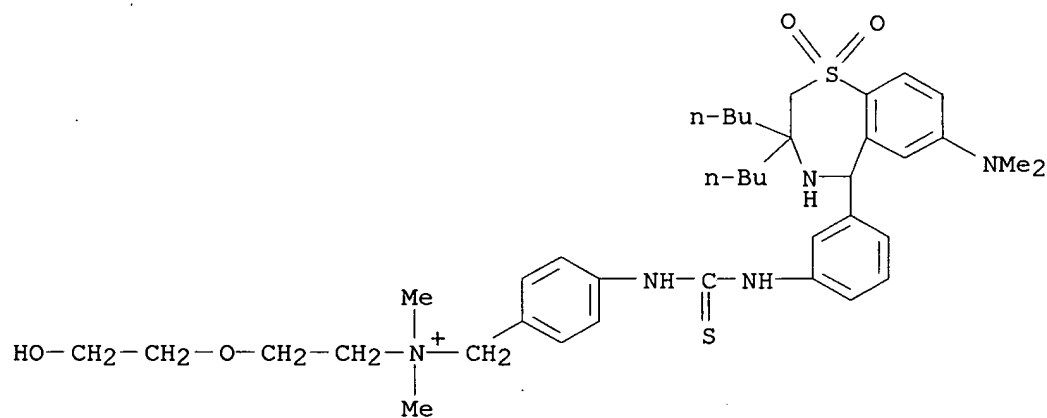
RN 670277-26-6 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-(2-hydroxypropyl)-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

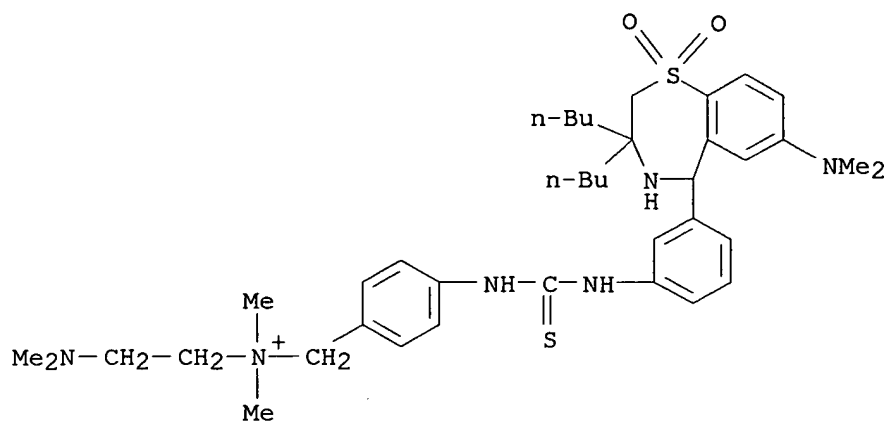
RN 670277-27-7 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-[2-(2-hydroxyethoxy)ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

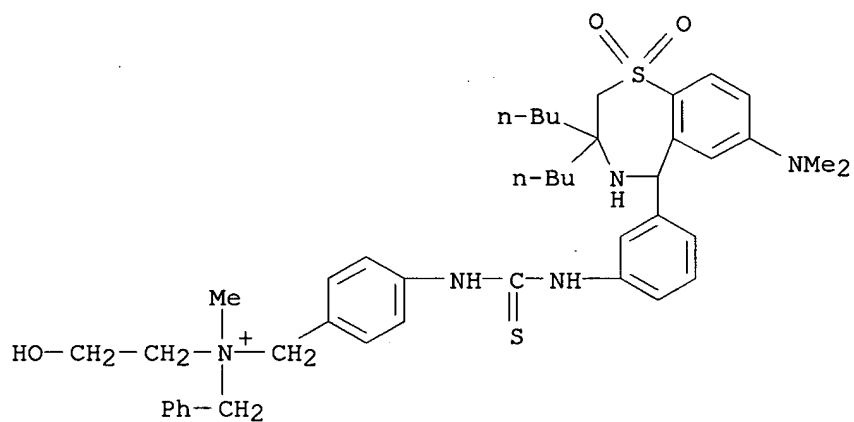
RN 670277-29-9 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-[2-(dimethylamino)ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670277-30-2 CAPLUS

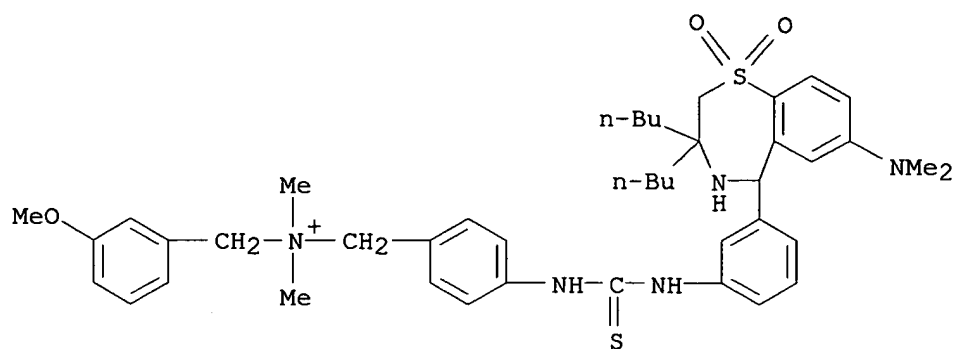
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● Br<sup>-</sup>

RN 670277-31-3 CAPLUS

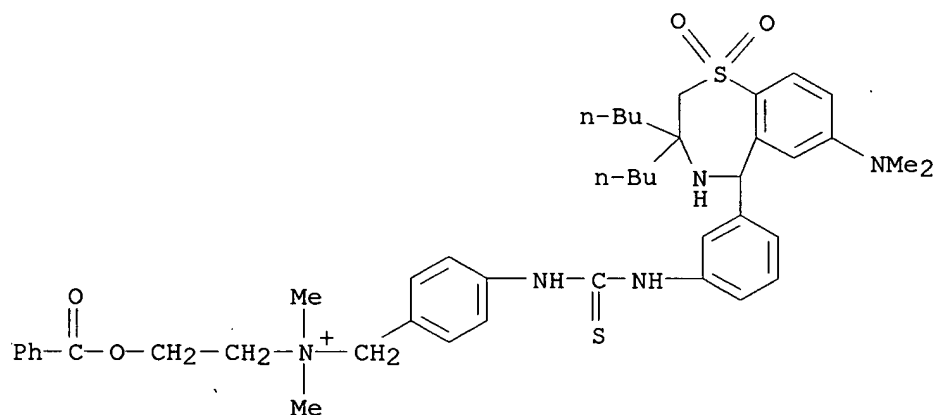
CN Benzenemethanaminium, N-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-methoxy-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

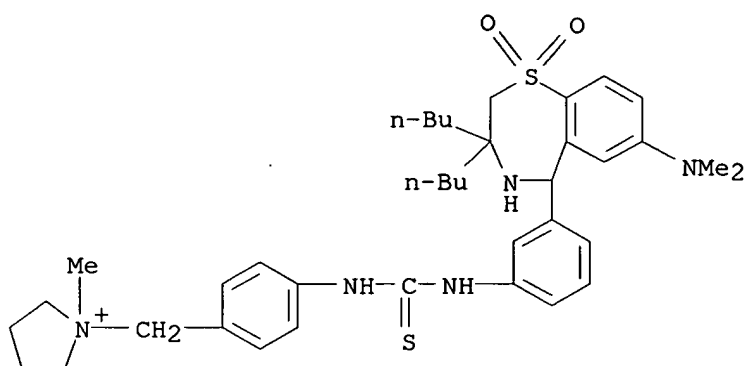
RN 670277-32-4 CAPLUS

CN Benzenemethanaminium, N-[2-(benzoyloxy)ethyl]-4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

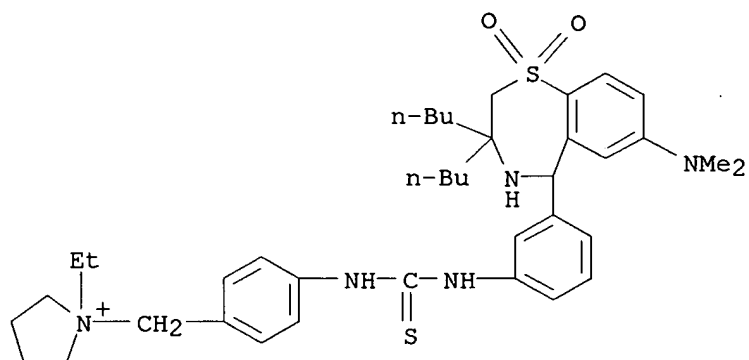
RN 670277-33-5 CAPLUS

CN Pyrrolidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

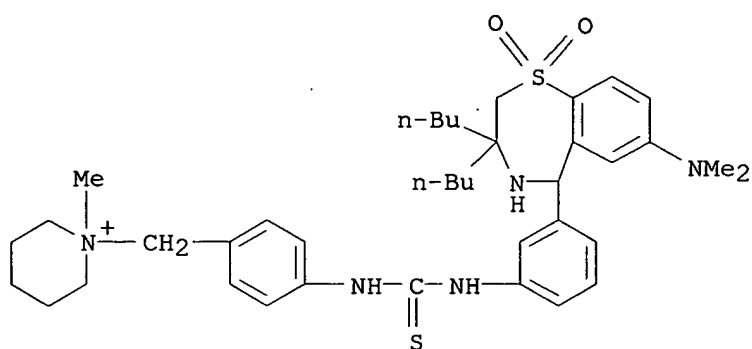
RN 670277-34-6 CAPLUS

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● Br<sup>-</sup>

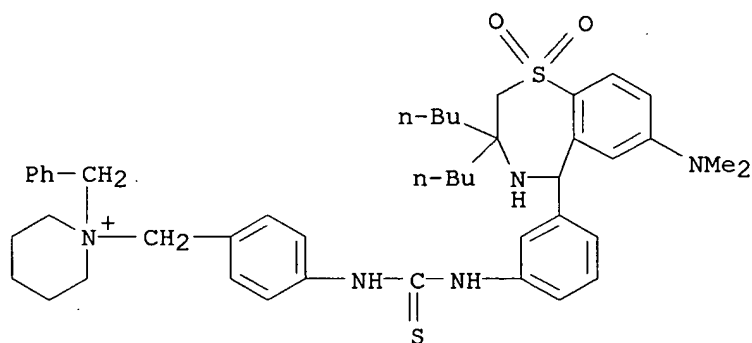
RN 670277-35-7 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

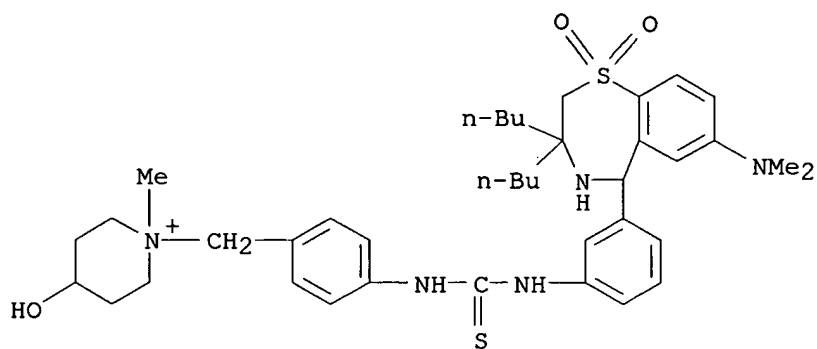
RN 670277-36-8 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

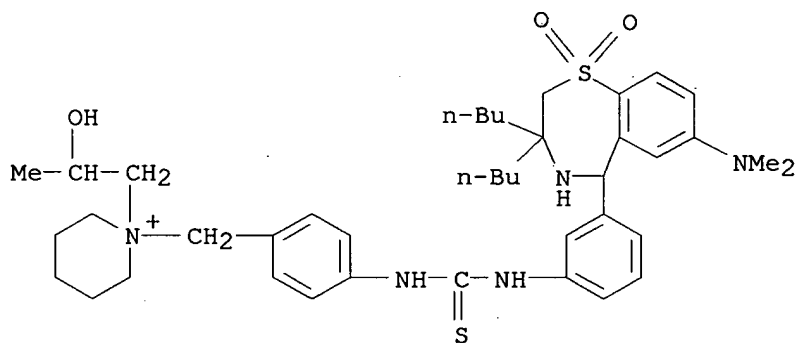
RN 670277-37-9 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-hydroxy-1-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

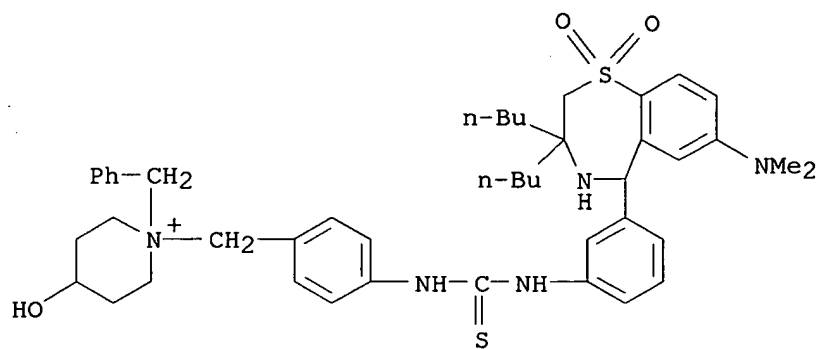
RN 670277-38-0 CAPLUS

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● Br<sup>-</sup>

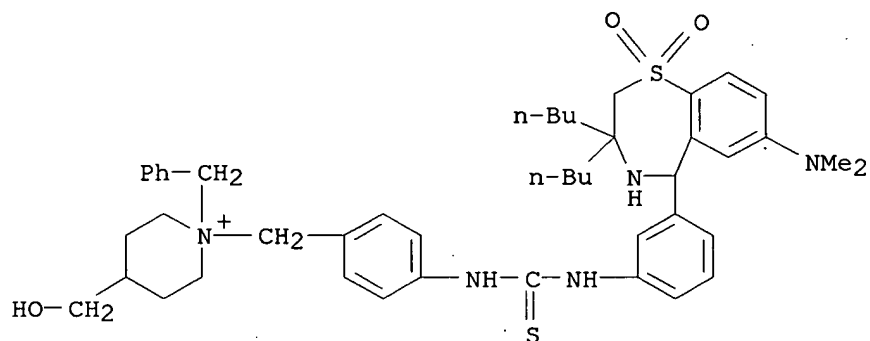
RN 670277-39-1 CAPLUS

CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-hydroxy-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

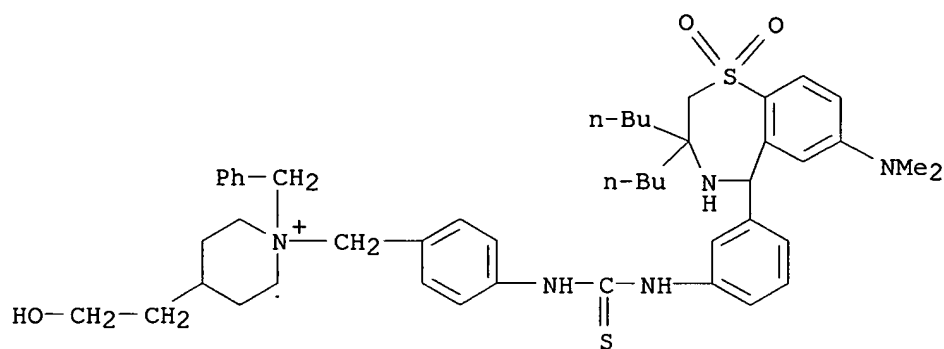
RN 670277-40-4 CAPLUS

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(CA INDEX NAME)

● Br<sup>-</sup>

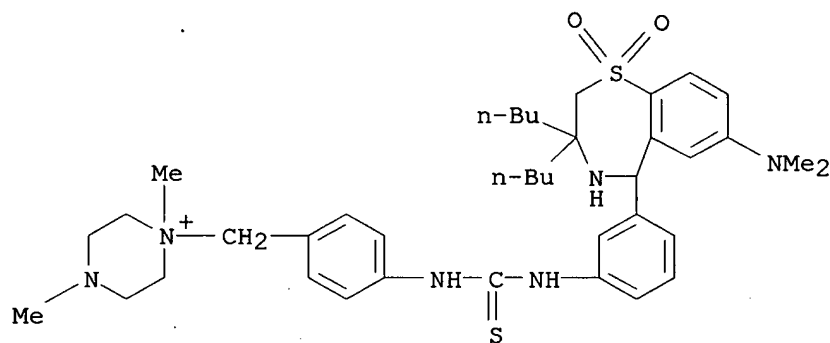
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CN Piperidinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(2-hydroxyethyl)-1-(phenylmethyl)-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

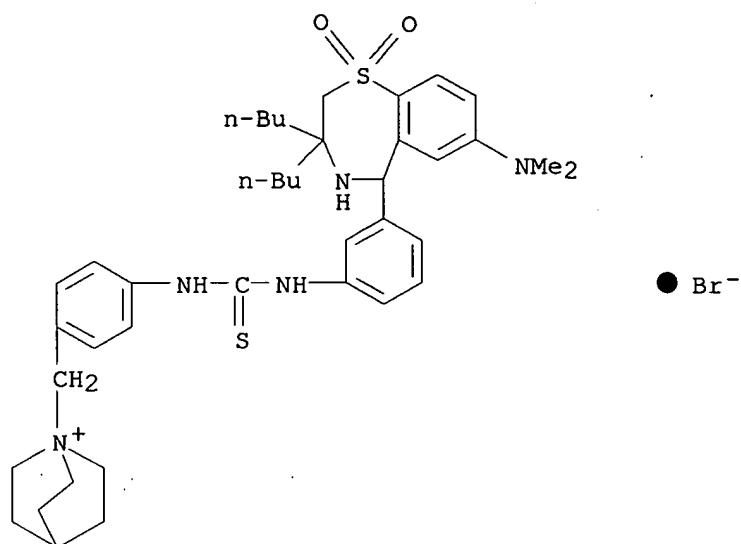
RN 670277-42-6 CAPLUS

CN Piperazinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

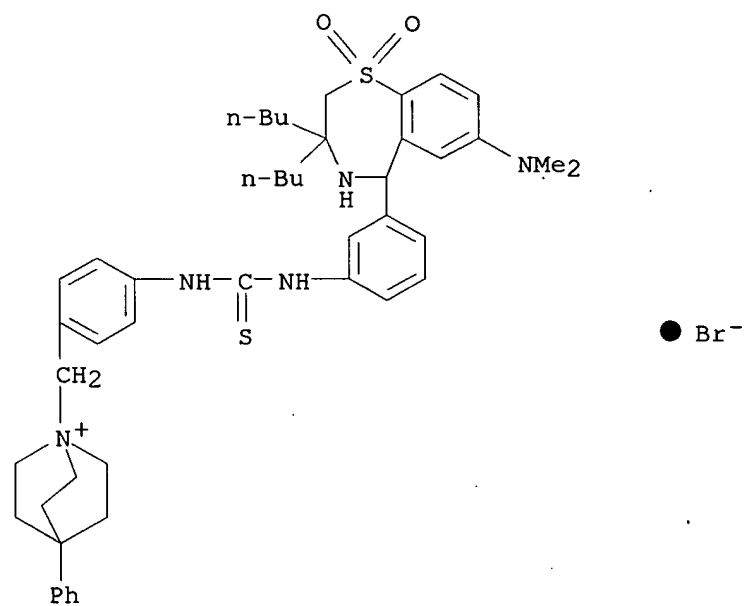
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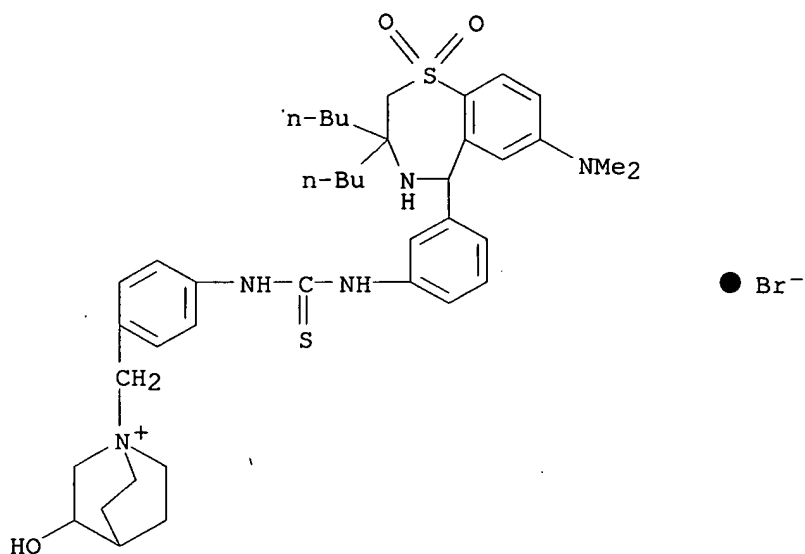
RN 670277-44-8 CAPLUS

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(CA INDEX NAME)



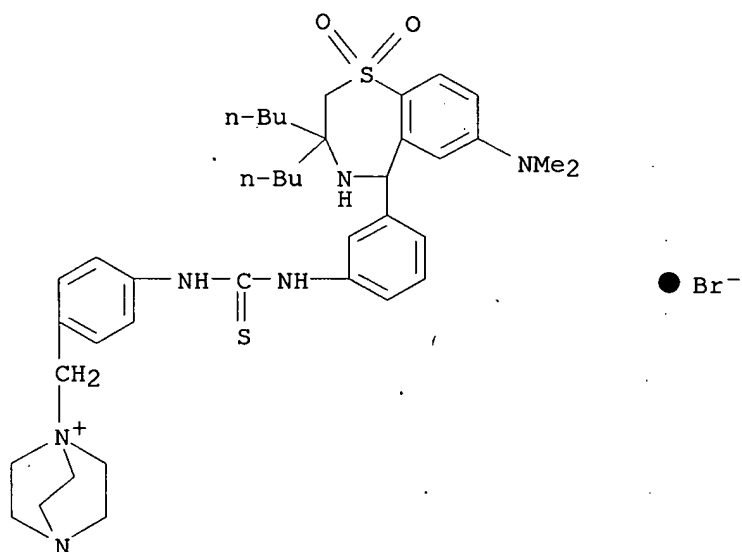
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(CA INDEX NAME)



RN 670277-46-0 CAPLUS

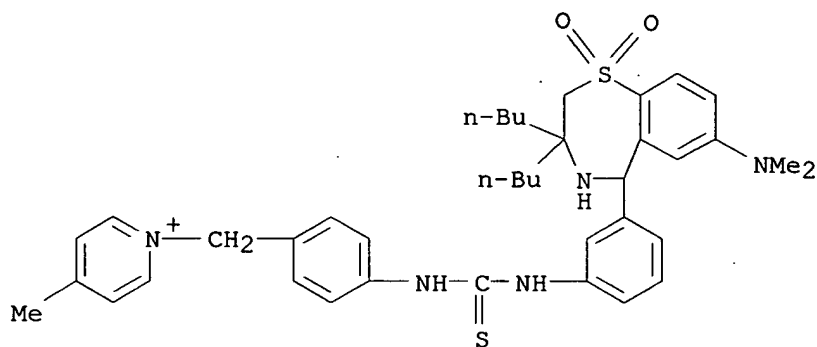
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RN 670277-47-1 CAPLUS

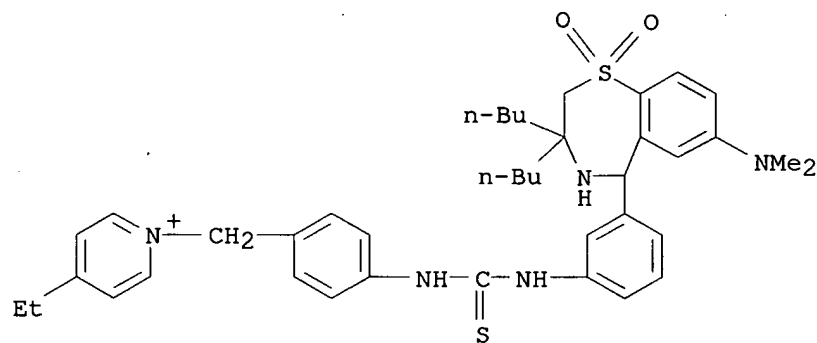
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

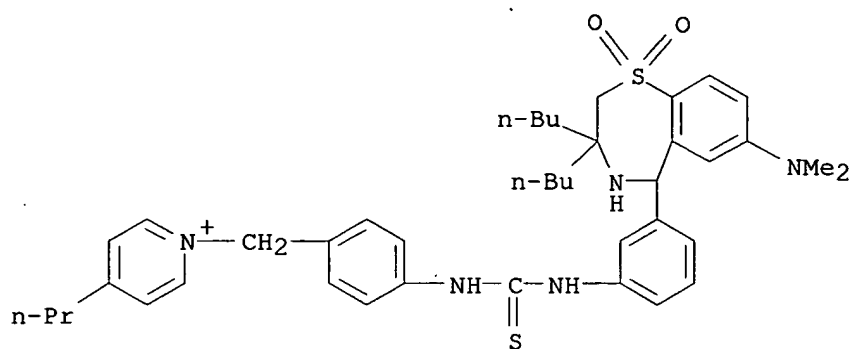
RN 670277-48-2 CAPLUS

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● Br<sup>-</sup>

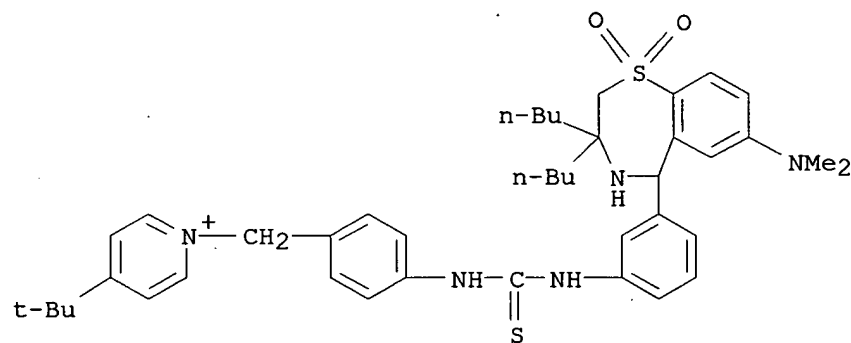
RN 670277-49-3 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-propyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

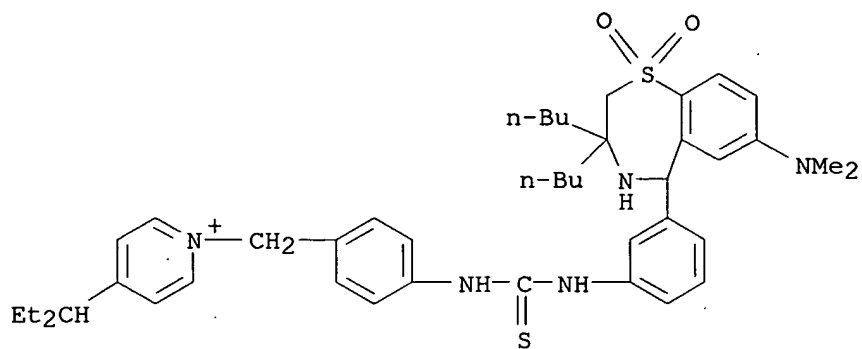
RN 670277-50-6 CAPLUS

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● Br<sup>-</sup>

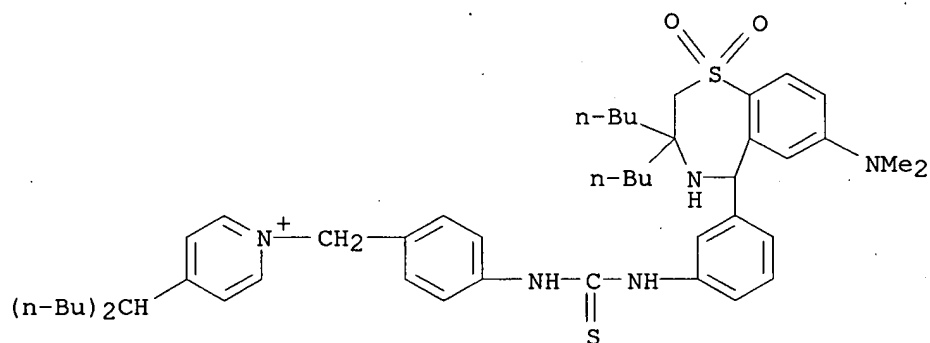
RN 670277-51-7 CAPLUS

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● Br<sup>-</sup>

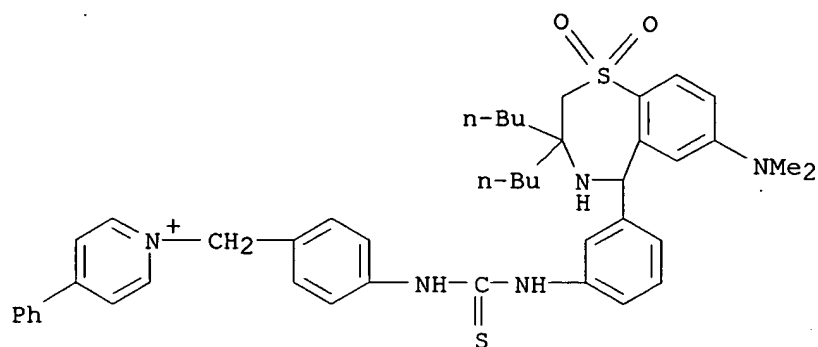
RN 670277-52-8 CAPLUS

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● Br<sup>-</sup>

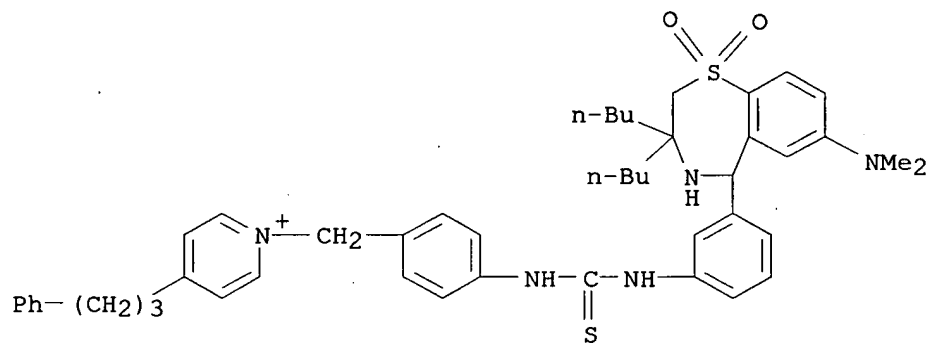
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● Br<sup>-</sup>

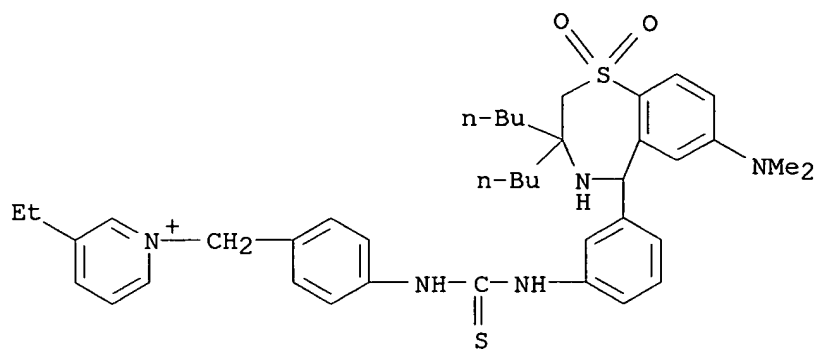
RN 670277-54-0 CAPLUS

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● Br<sup>-</sup>

RN 670277-55-1 CAPLUS

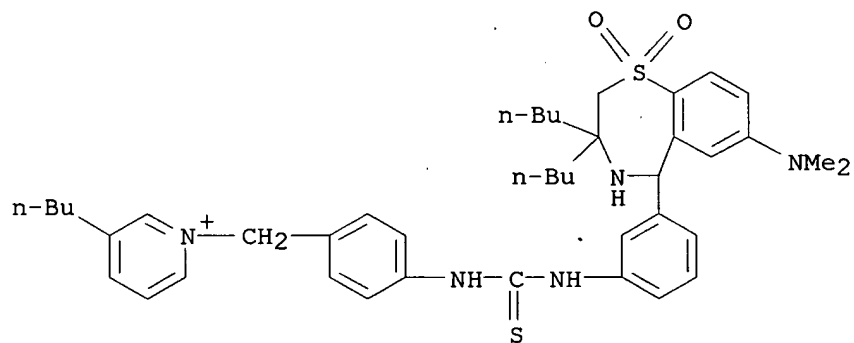
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● Br<sup>-</sup>

RN 670277-56-2 CAPLUS

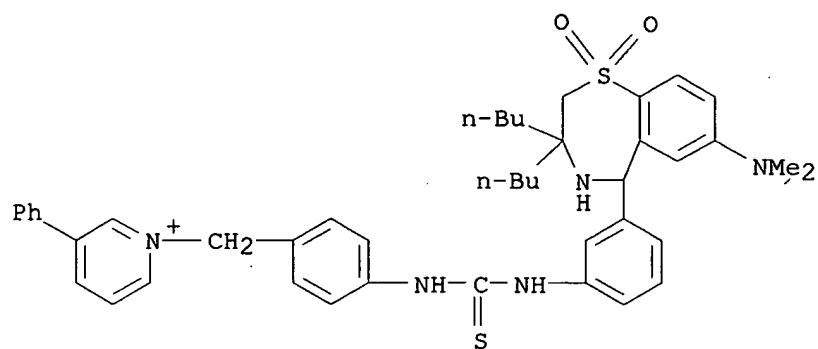
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● Br<sup>-</sup>

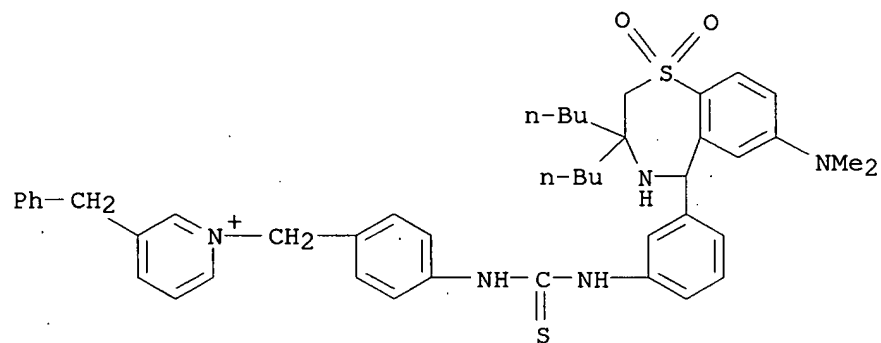
RN 670277-57-3 CAPLUS

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● Br<sup>-</sup>

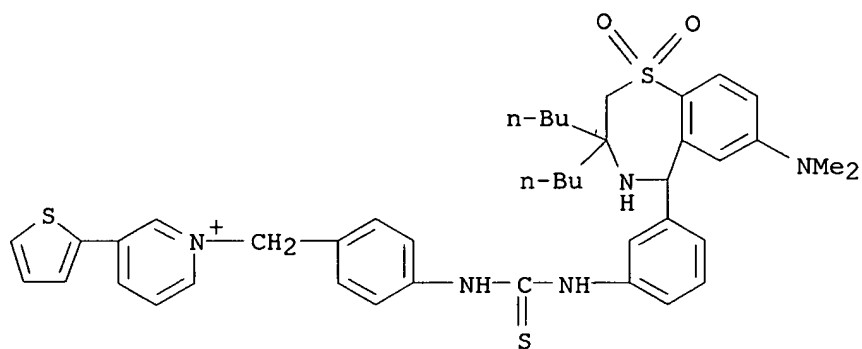
RN 670277-58-4 CAPLUS

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● Br<sup>-</sup>

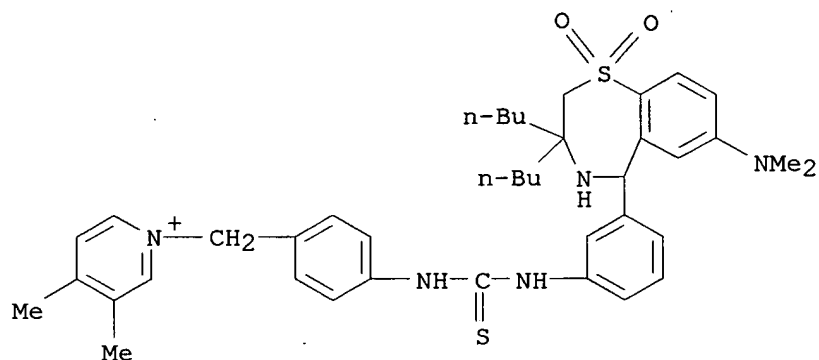
RN 670277-59-5 CAPLUS

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● Br<sup>-</sup>

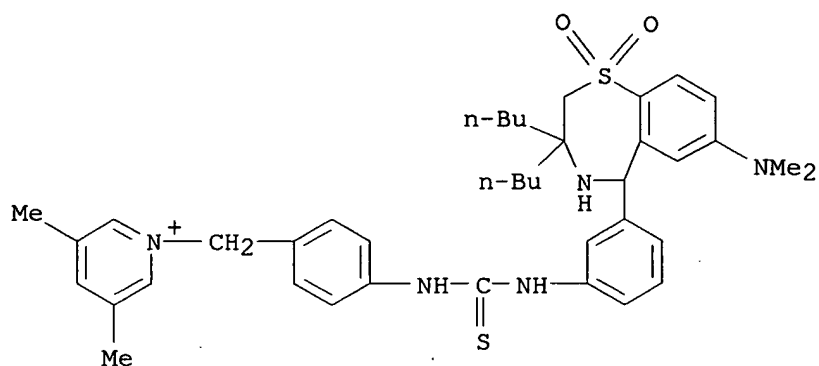
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● Br<sup>-</sup>

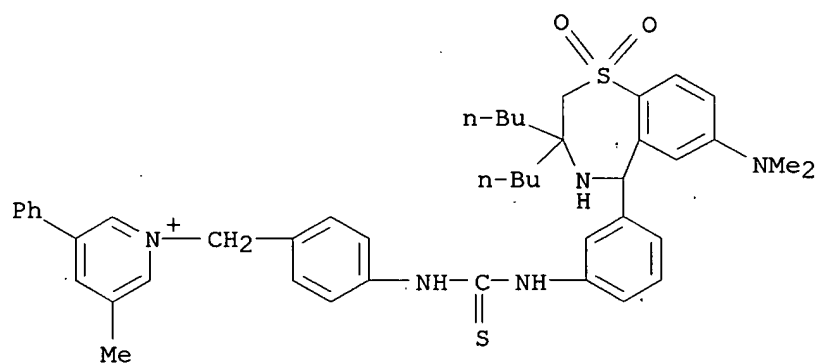
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● Br<sup>-</sup>

RN 670277-62-0 CAPLUS

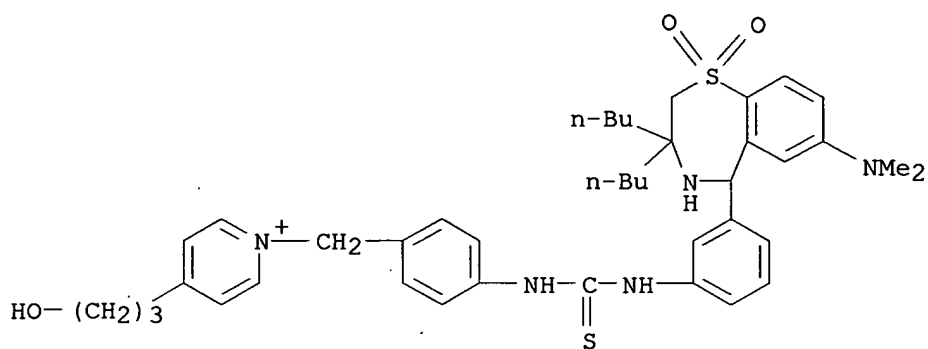
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● Br<sup>-</sup>

RN 670277-63-1 CAPLUS

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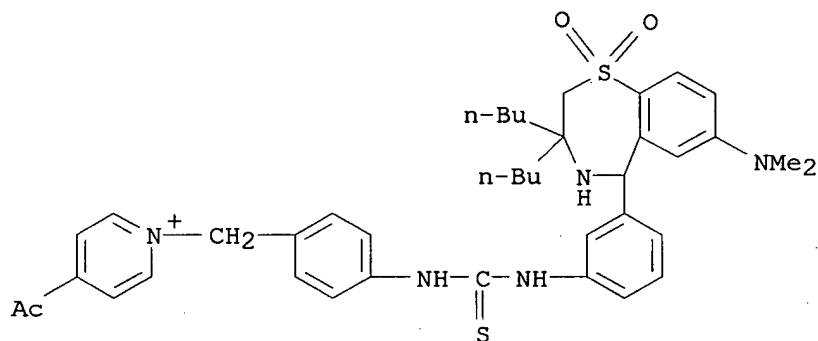




● Br<sup>-</sup>

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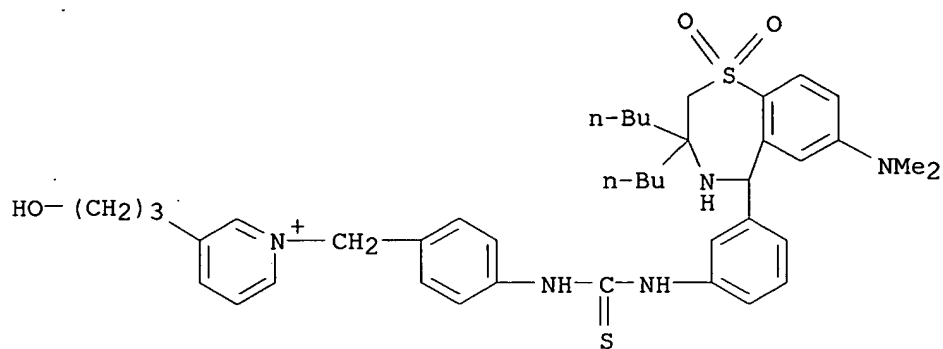
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● Br<sup>-</sup>

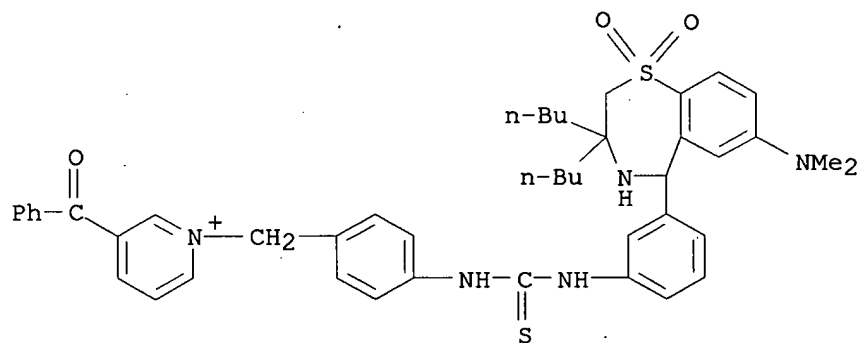
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● Br<sup>-</sup>

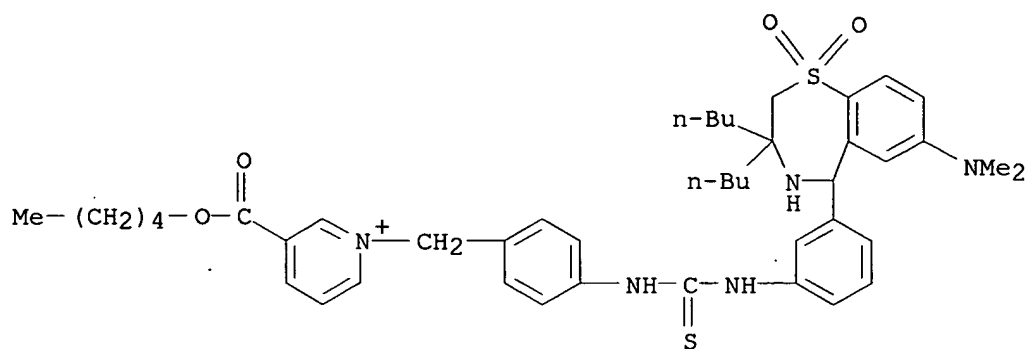
RN 670277-66-4 CAPLUS

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● Br<sup>-</sup>

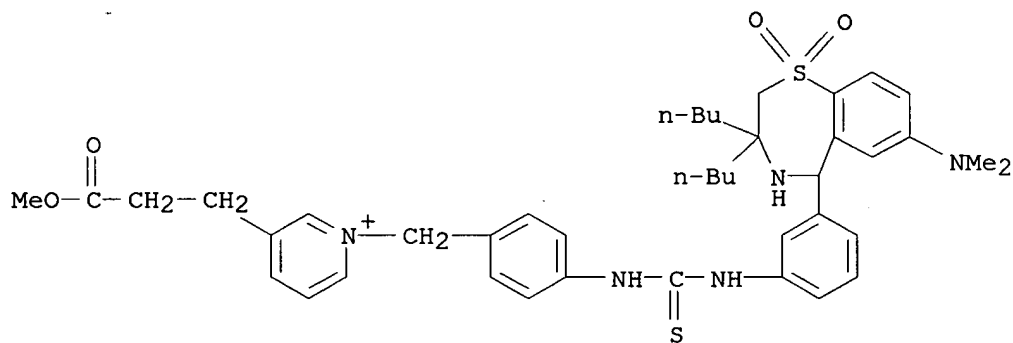
RN 670277-67-5 CAPLUS

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● Br<sup>-</sup>

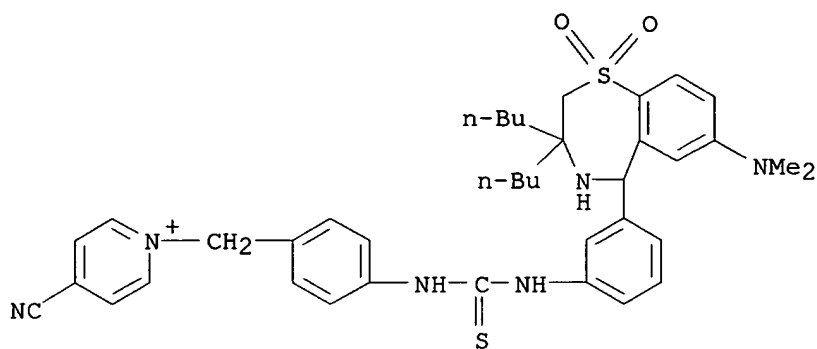
RN 670277-68-6 CAPLUS

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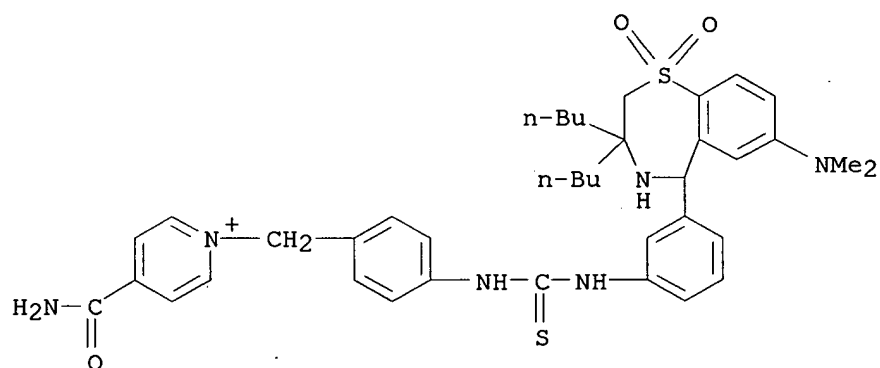
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RN 670277-69-7 CAPLUS

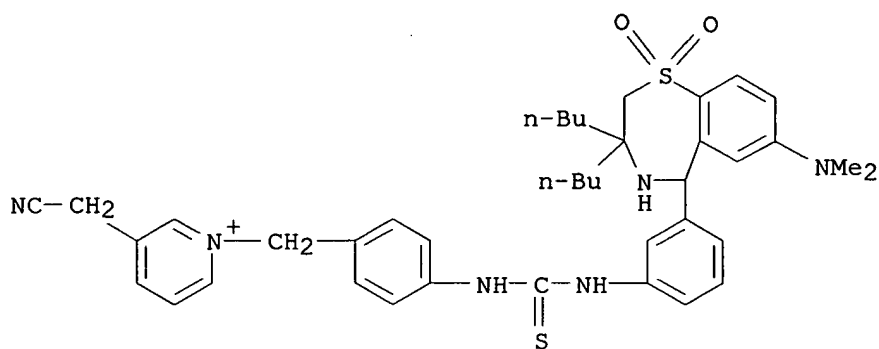
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● Br<sup>-</sup>

RN 670277-70-0 CAPLUS  
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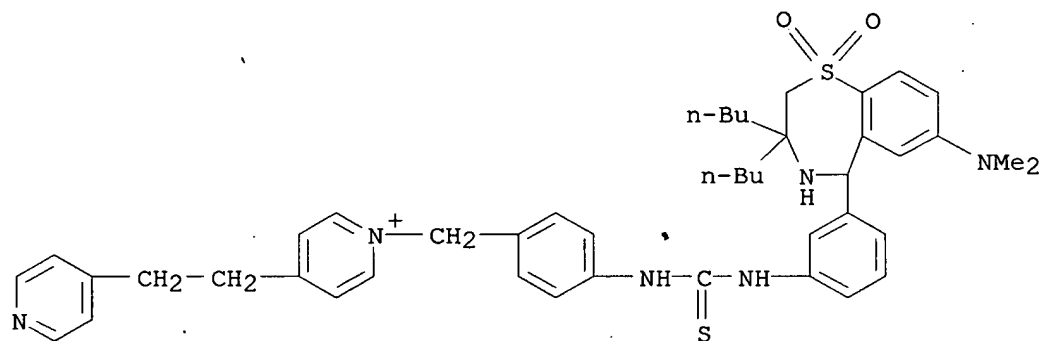
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● Br<sup>-</sup>

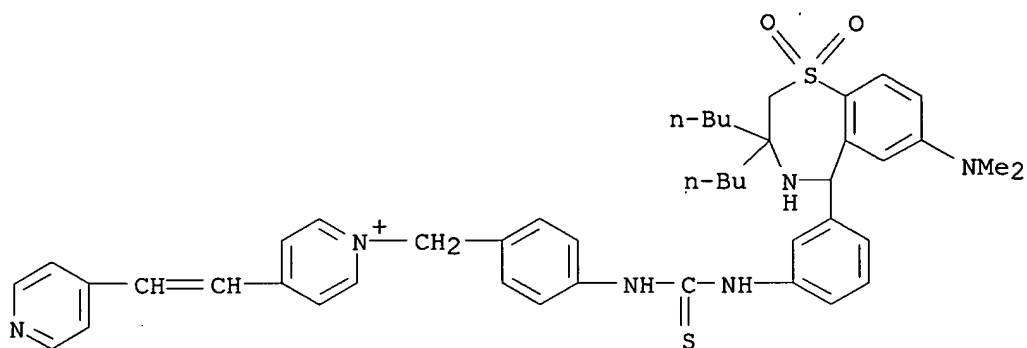
RN 670277-72-2 CAPLUS

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● Br<sup>-</sup>

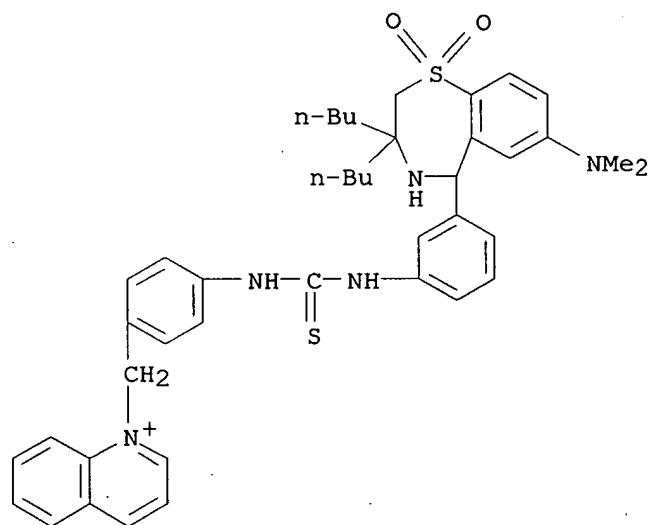
RN 670277-73-3 CAPLUS

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● Br<sup>-</sup>

RN 670277-74-4 CAPLUS

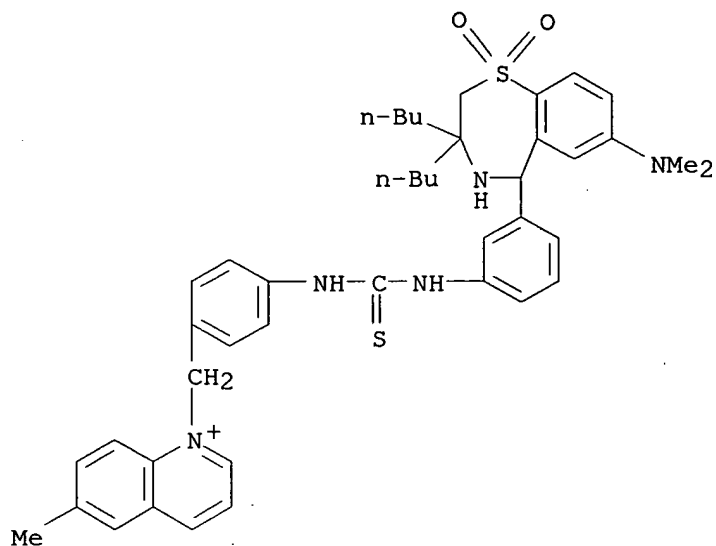
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● Br<sup>-</sup>

RN 670277-75-5 CAPLUS

CN Quinolinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-6-methyl-, bromide (9CI) (CA INDEX NAME)

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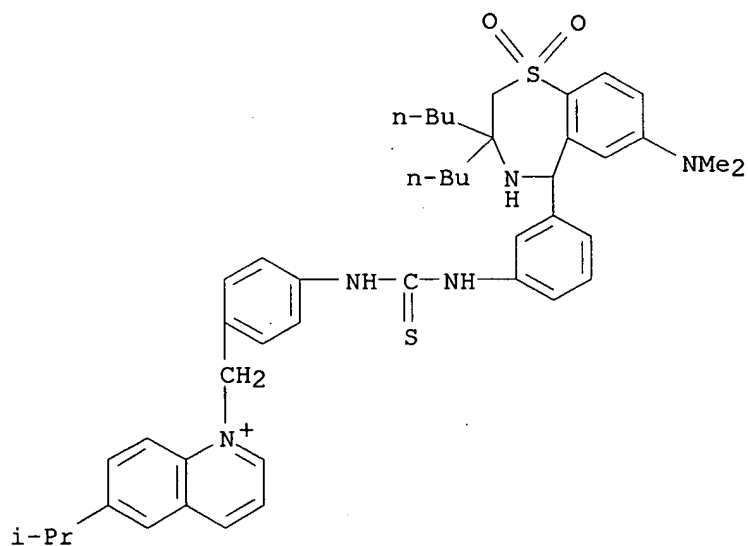


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RN 670277-76-6 CAPLUS  
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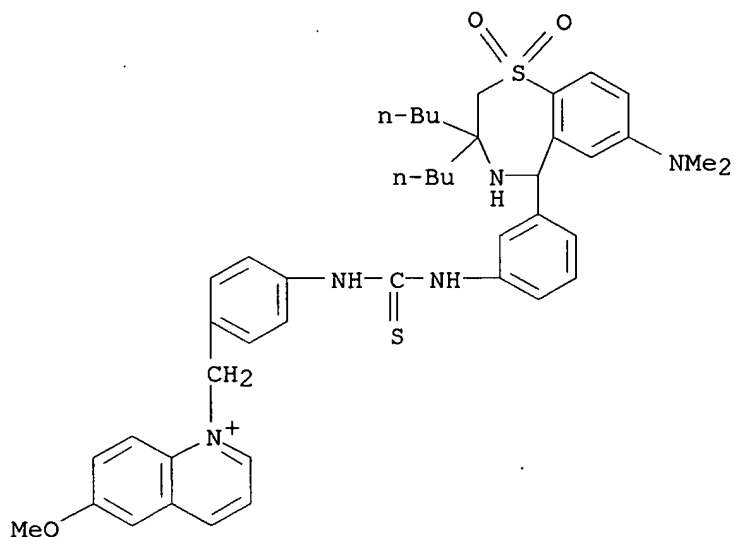
PAGE 2-A

● Br<sup>-</sup>

RN 670277-77-7 CAPLUS

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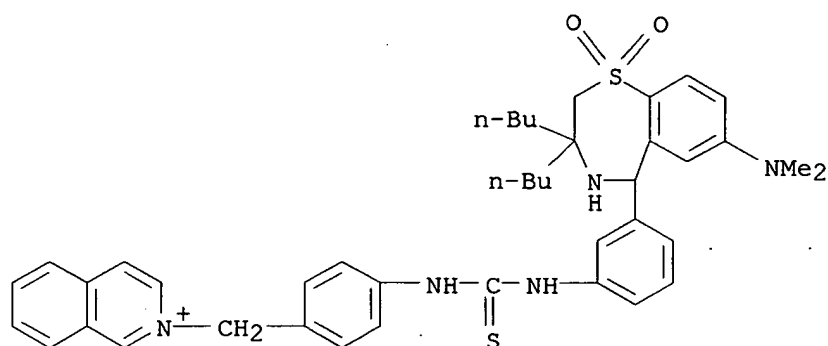
PAGE 2-A

● Br<sup>-</sup>

RN 670277-78-8 CAPLUS

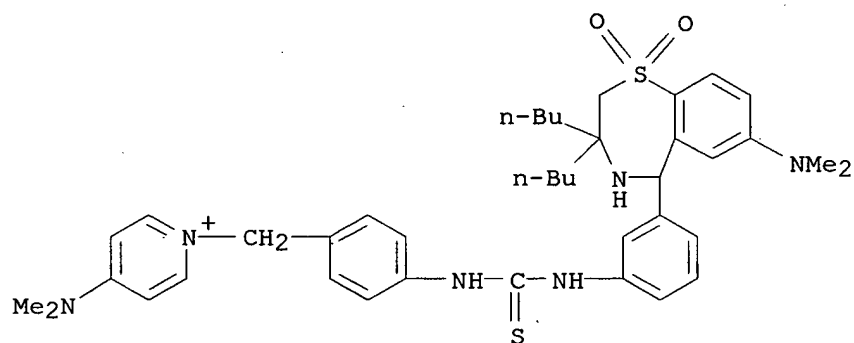
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● Br<sup>-</sup>

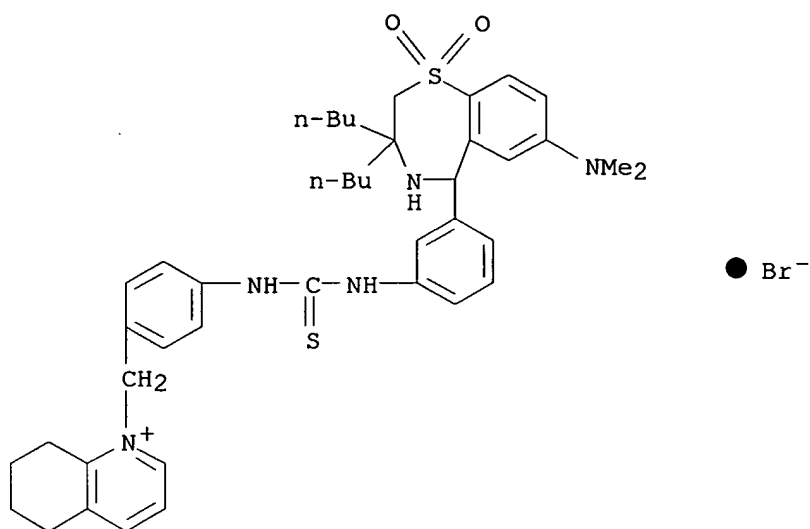
RN 670277-79-9 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(dimethylamino)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

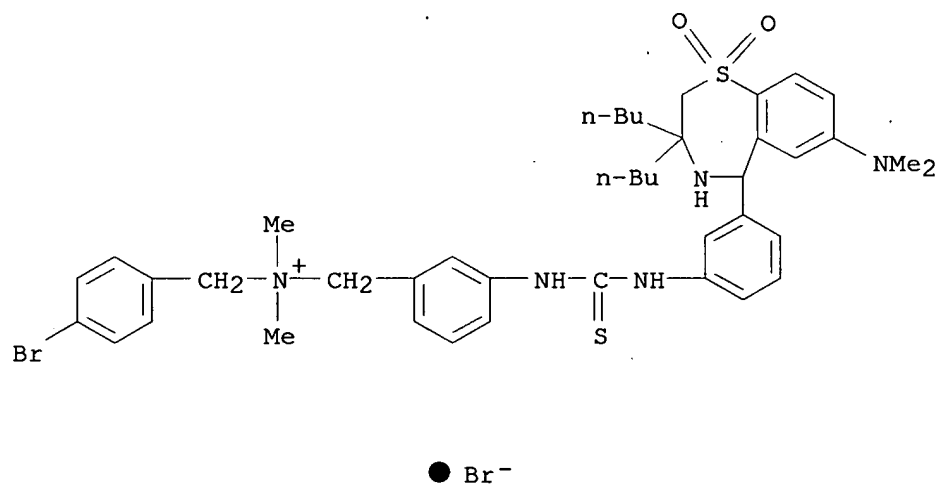
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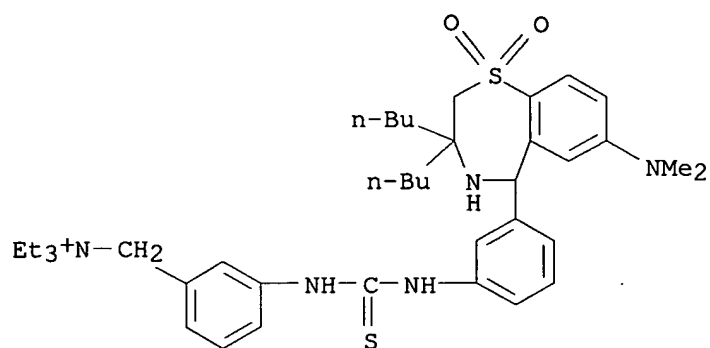
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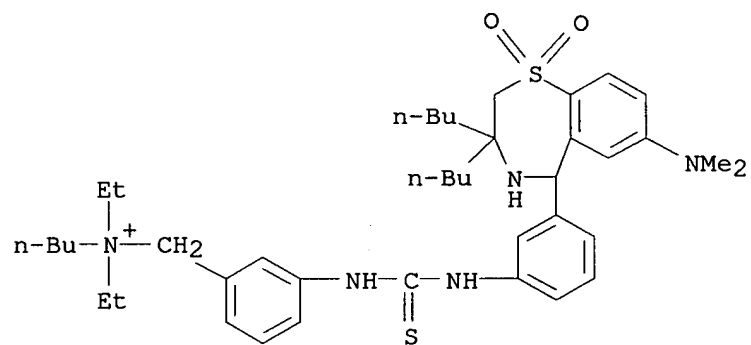


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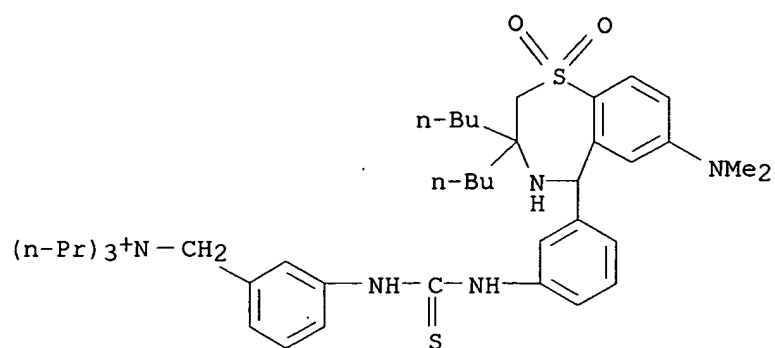
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● Br<sup>-</sup>

RN 670277-83-5 CAPLUS  
 CN Benzenemethanaminium, N-butyl-3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-diethyl-, bromide (9CI) (CA INDEX NAME)

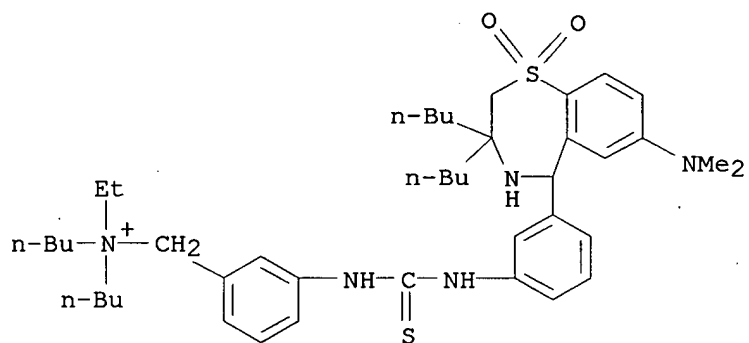
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● Br<sup>-</sup>

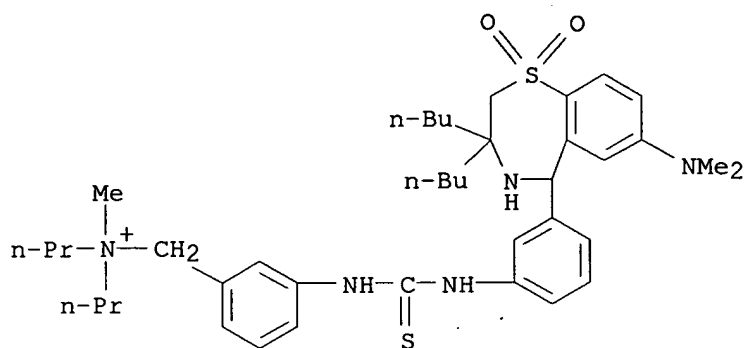
RN 670277-85-7 CAPLUS

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● Br<sup>-</sup>

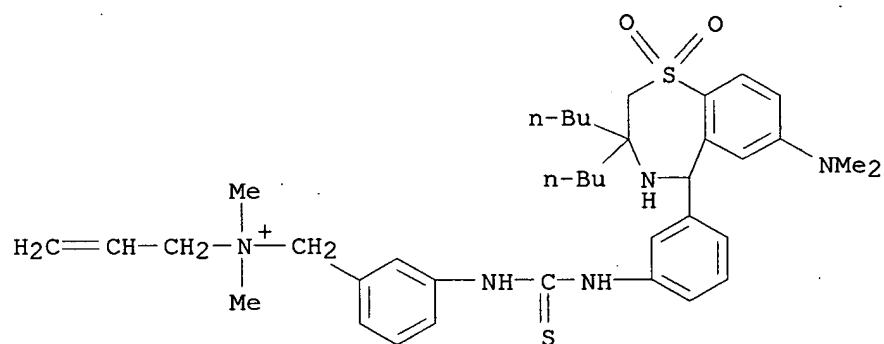
RN 670277-86-8 CAPLUS

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● Br<sup>-</sup>

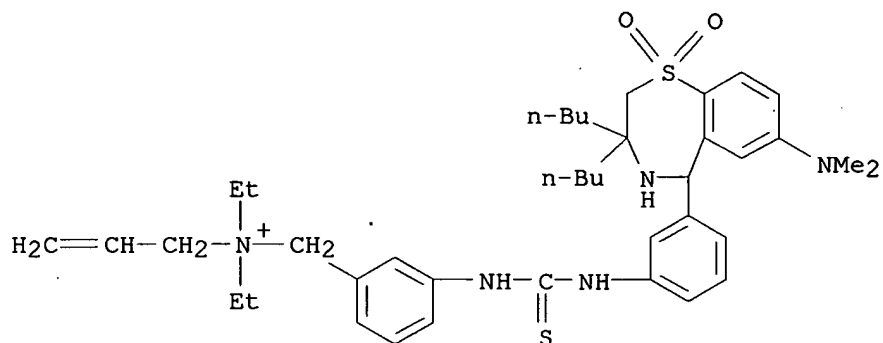
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● Br<sup>-</sup>

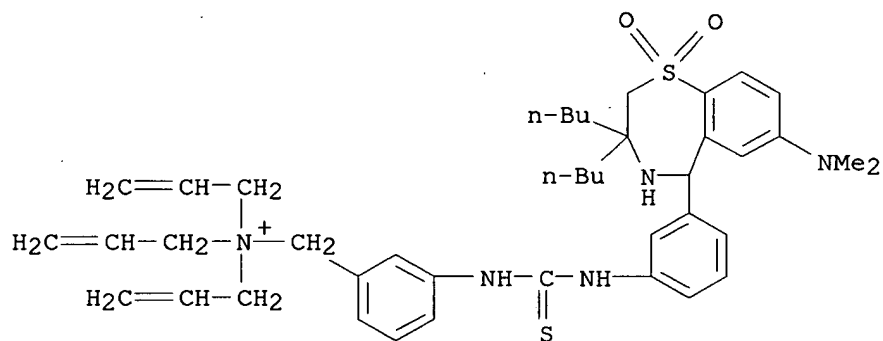
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● Br<sup>-</sup>

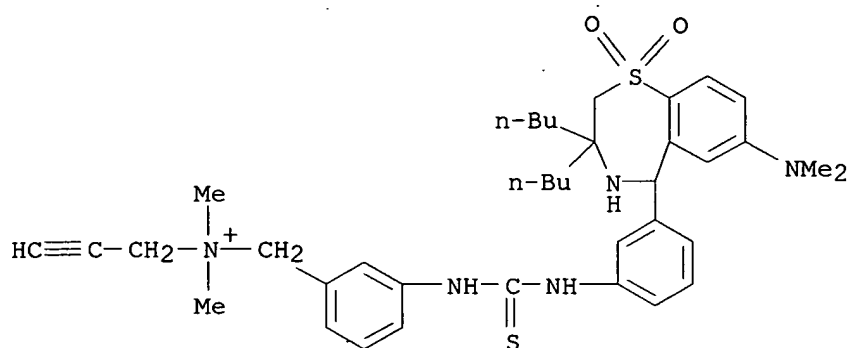
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● Br<sup>-</sup>

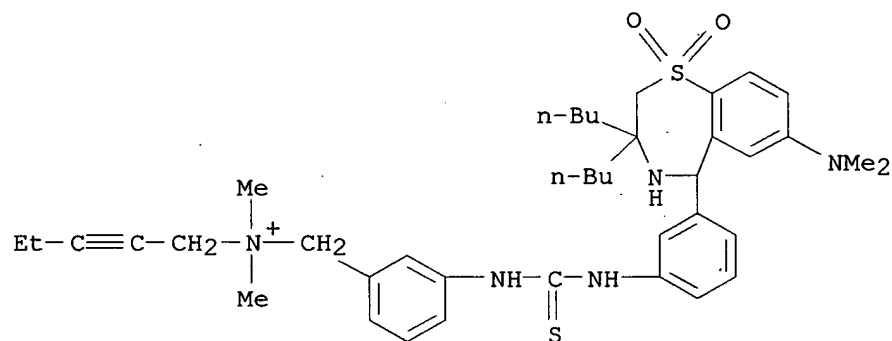
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● Br<sup>-</sup>

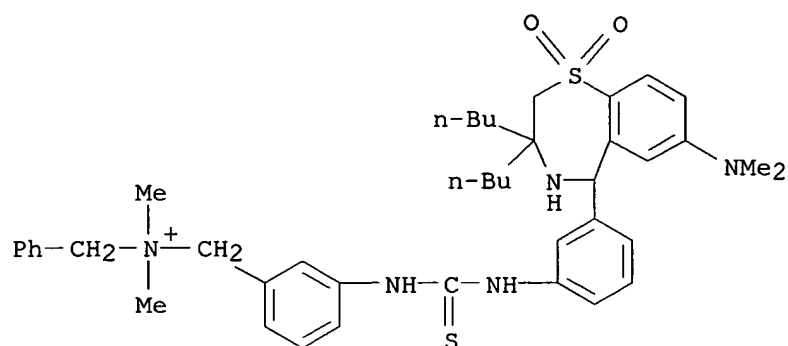
RN 670277-91-5 CAPLUS

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● Br<sup>-</sup>

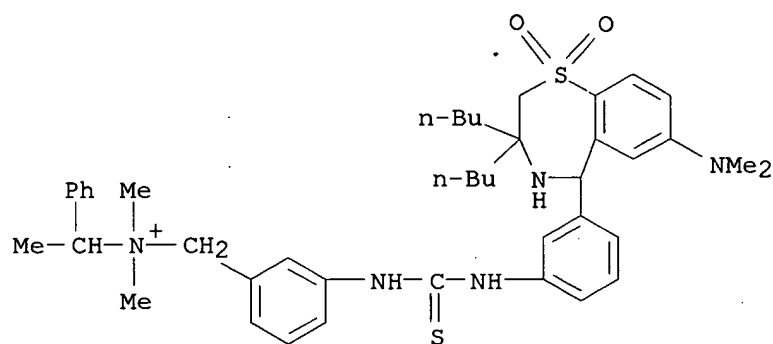
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● Br<sup>-</sup>

RN 670277-93-7 CAPLUS

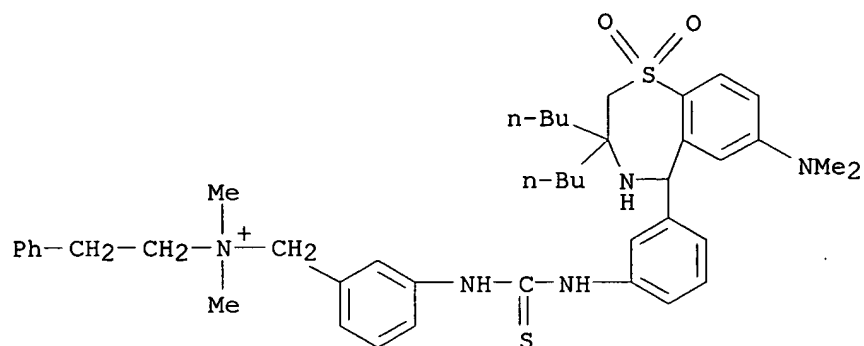
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● Br<sup>-</sup>

RN 670277-94-8 CAPLUS

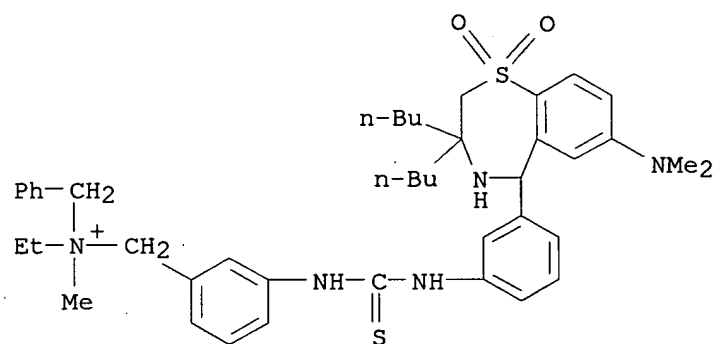
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● Br<sup>-</sup>

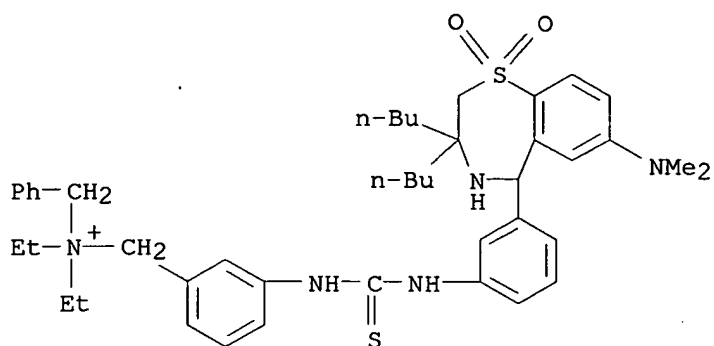
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● Br<sup>-</sup>

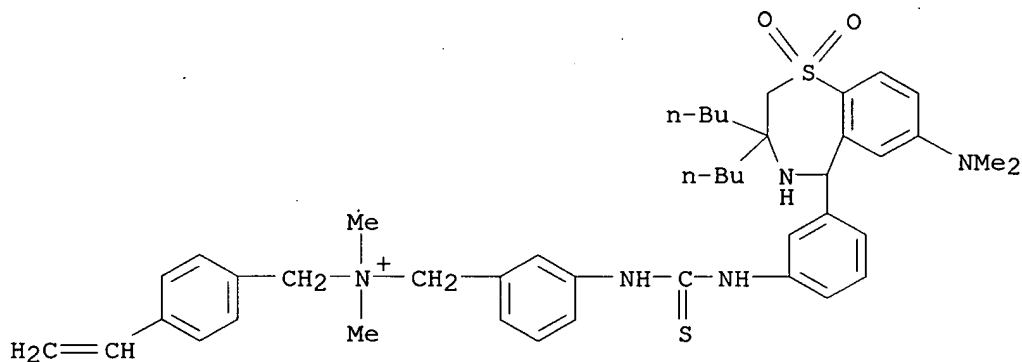
RN 670277-96-0 CAPLUS

CN Benzenemethanaminium, 3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-diethyl-N-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

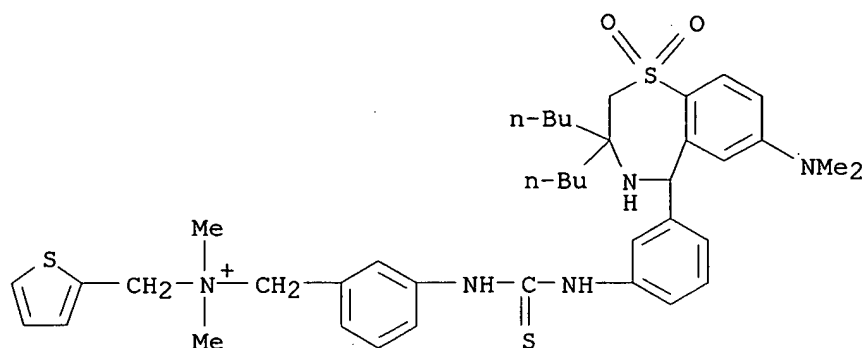
RN 670277-97-1 CAPLUS

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● Br<sup>-</sup>

RN 670277-98-2 CAPLUS

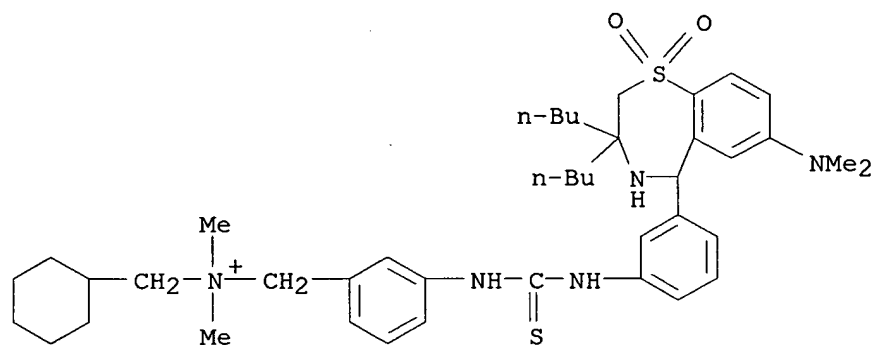
CN 2-Thiophenemethanaminium, N-[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670277-99-3 CAPLUS

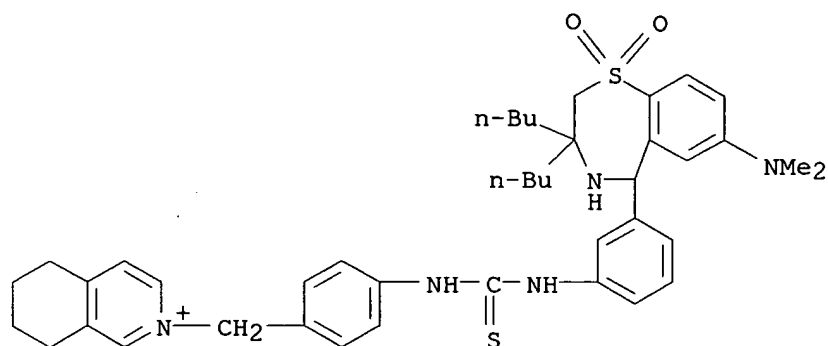
CN Benzenemethanaminium, N-(cyclohexylmethyl)-3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-00-9 CAPLUS

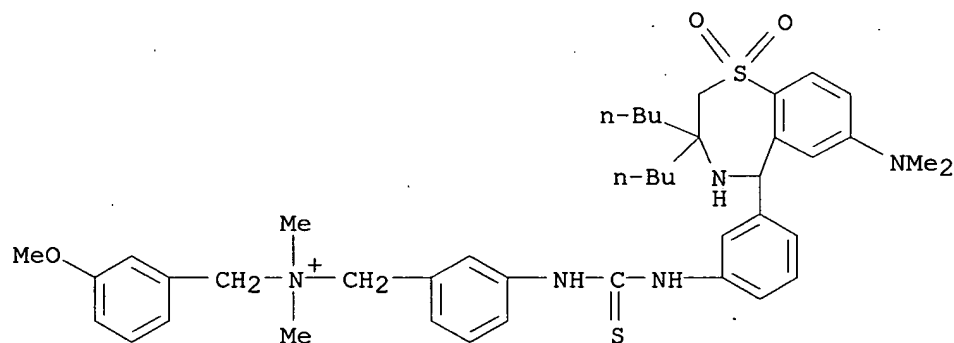
CN Isoquinolinium, 2-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-5,6,7,8-tetrahydro-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-01-0 CAPLUS

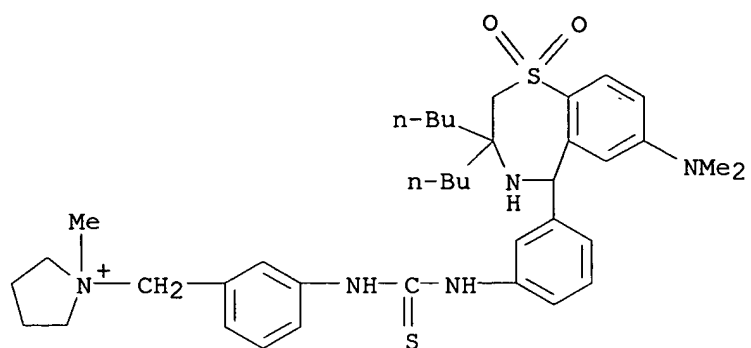
CN Benzenemethanaminium, 3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-[(3-methoxyphenyl)methyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-02-1 CAPLUS

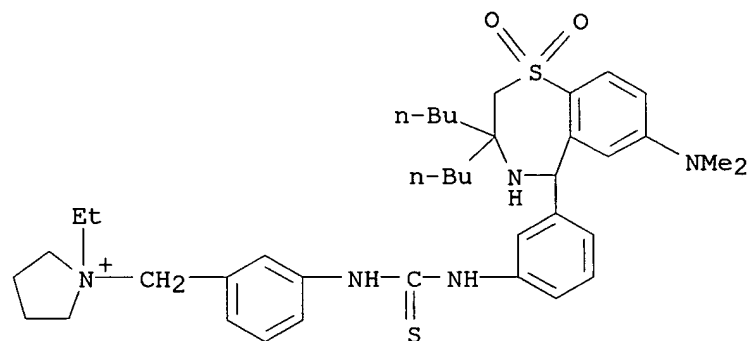
CN Pyrrolidinium, 1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-03-2 CAPLUS

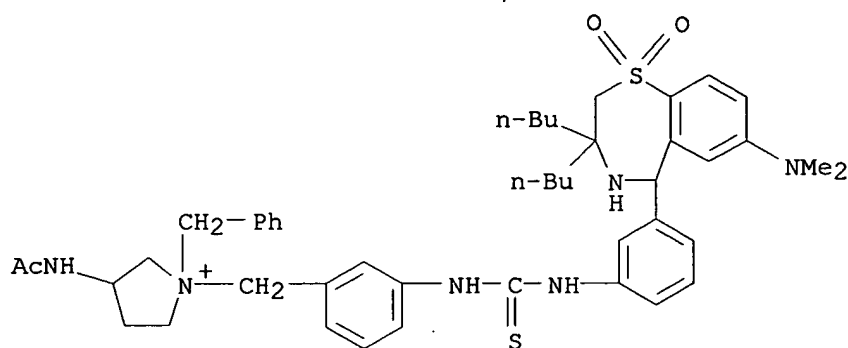
CN Pyrrolidinium, 1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-ethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

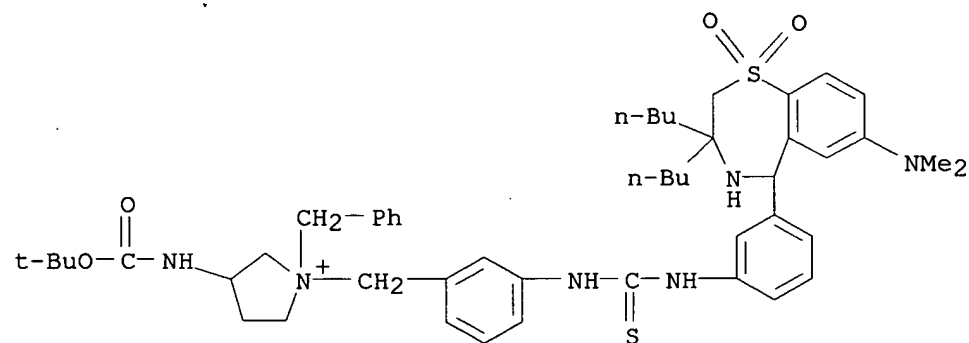
RN 670278-04-3 CAPLUS

CN Pyrrolidinium, 3-(acetylamino)-1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

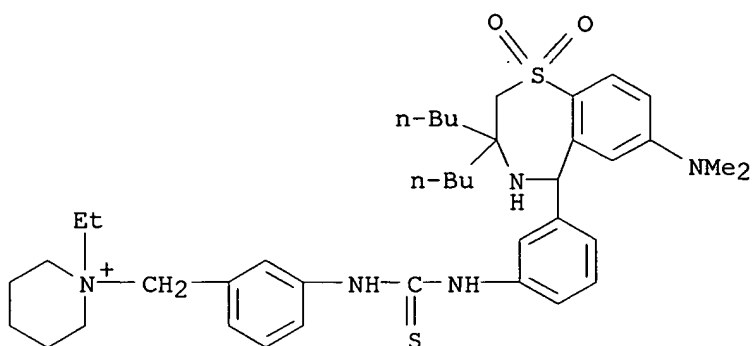
RN 670278-05-4 CAPLUS

CN Pyrrolidinium, 1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-[[[1,1-dimethylethoxy]carbonyl]amino]-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

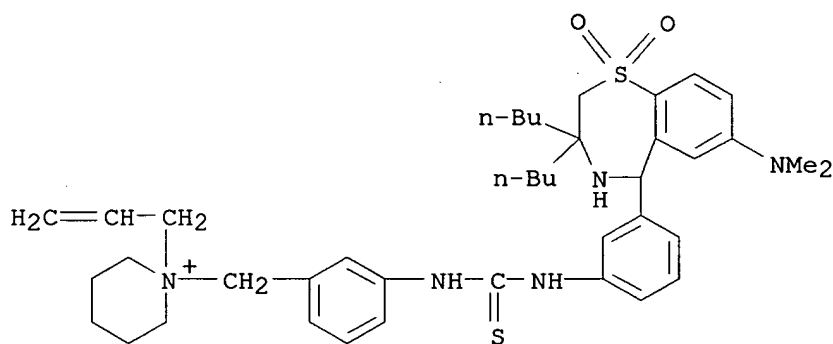
RN 670278-06-5 CAPLUS

CN Piperidinium, 1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

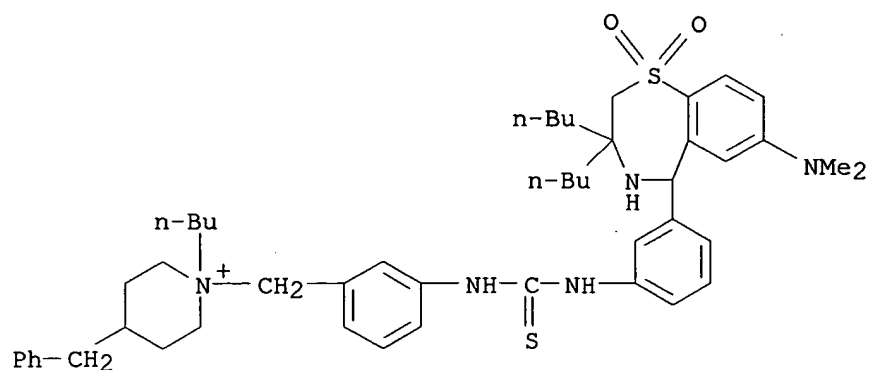
RN 670278-07-6 CAPLUS

CN Piperidinium, 1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-(2-propenyl)-, bromide (9CI) (CA INDEX NAME)

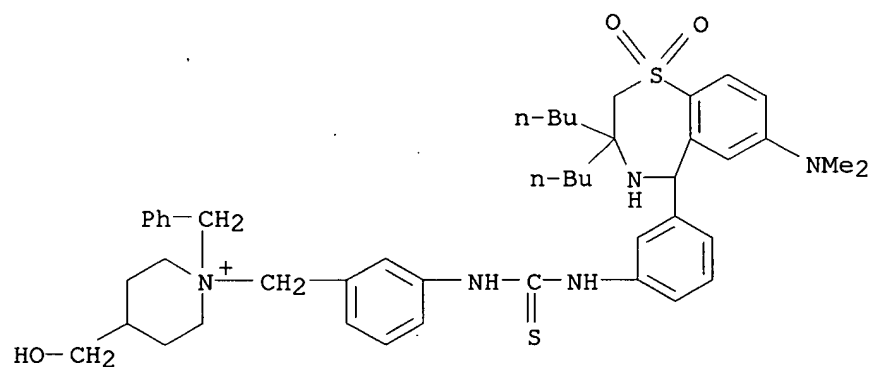
● Br<sup>-</sup>

RN 670278-08-7 · CAPLUS

CN Piperidinium, 1-butyl-1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

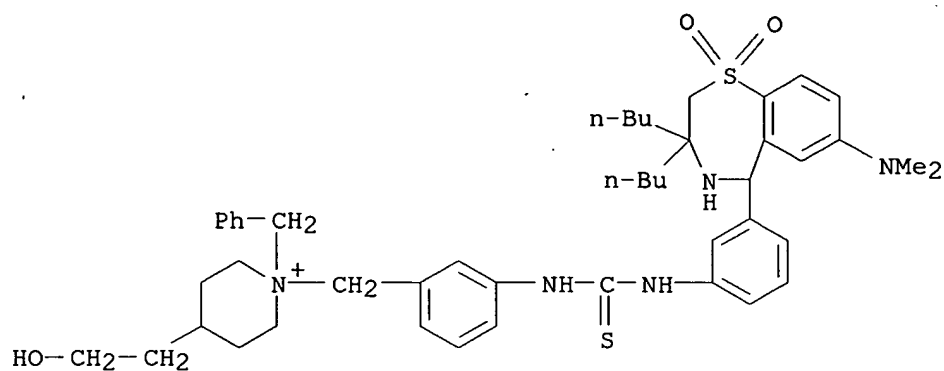
● Br<sup>-</sup>

RN 670278-09-8 CAPLUS  
 CN Piperidinium, 1-[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(hydroxymethyl)-1-(phenylmethyl)-, bromide (9CI)  
 (CA INDEX NAME)

● Br<sup>-</sup>

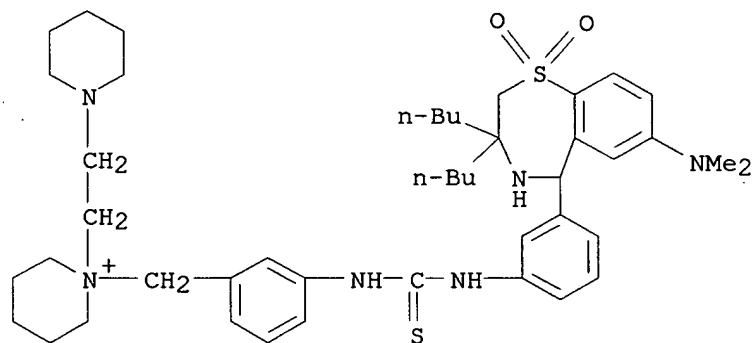
RN 670278-10-1 CAPLUS  
 CN Piperidinium, 1-[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(2-hydroxyethyl)-1-(phenylmethyl)-, bromide (9CI)  
 (CA INDEX NAME)



● Br<sup>-</sup>

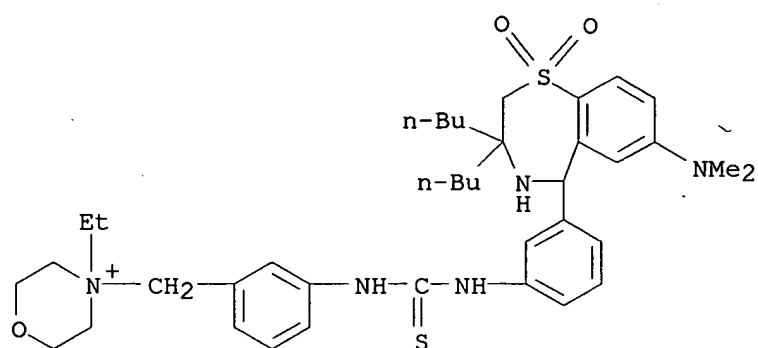
RN 670278-11-2 CAPLUS

CN Piperidinium, 1-[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1-[2-(1-piperidinyl)ethyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

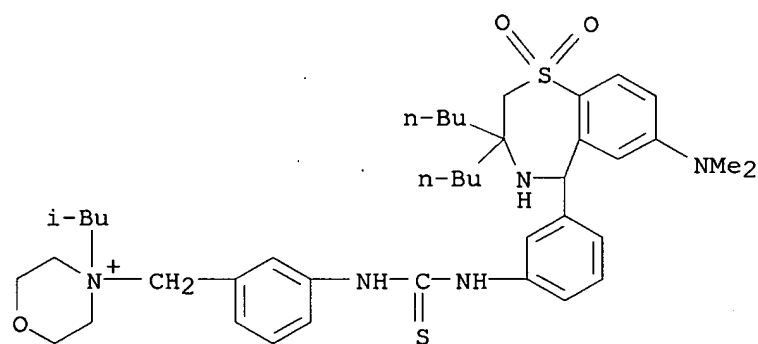
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CN Morpholinium, 4-[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-ethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

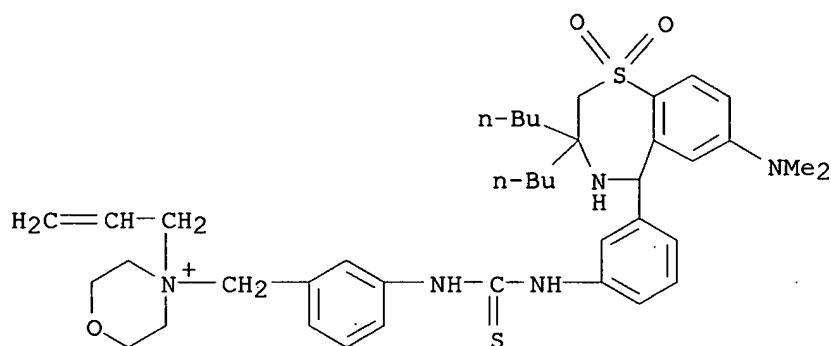
RN 670278-13-4 CAPLUS

CN Morpholinium, 4-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(2-methylpropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 670278-14-5 CAPLUS

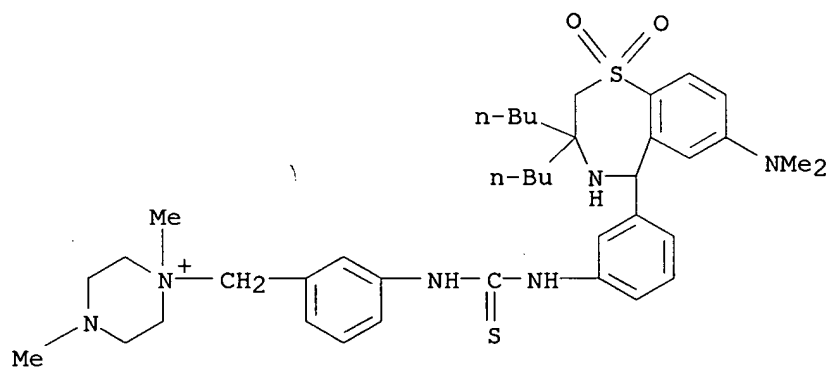
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● Br<sup>-</sup>

RN 670278-15-6 CAPLUS

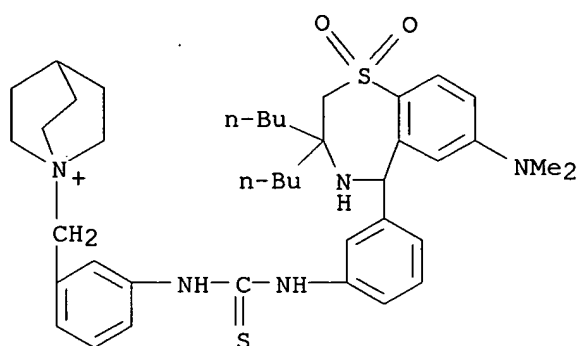
CN Piperazinium, 1-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-1,4-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-16-7 CAPLUS

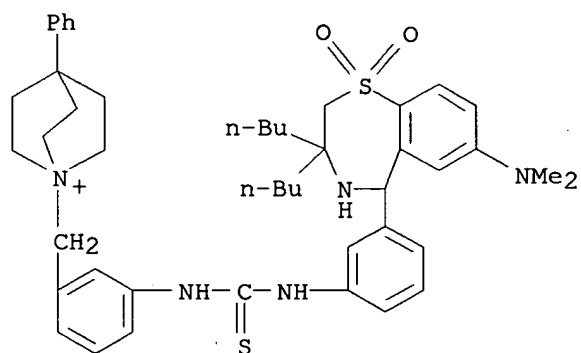
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● Br<sup>-</sup>

RN 670278-17-8 CAPLUS

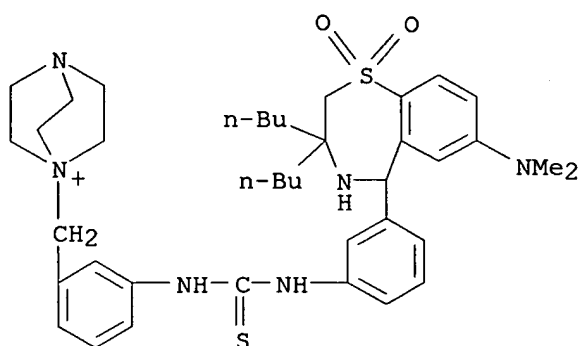
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(CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-18-9 CAPLUS

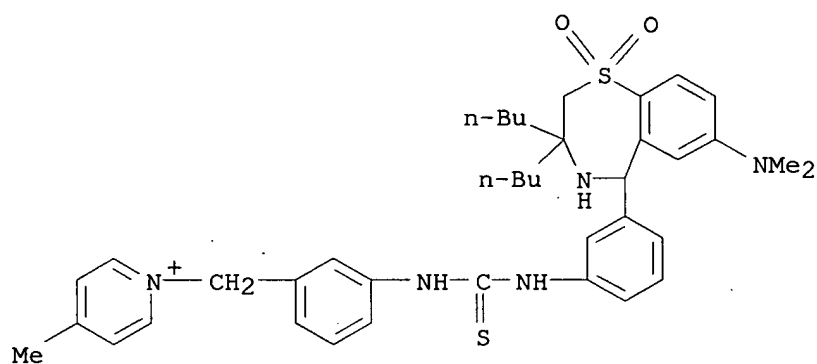
CN 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-19-0 CAPLUS

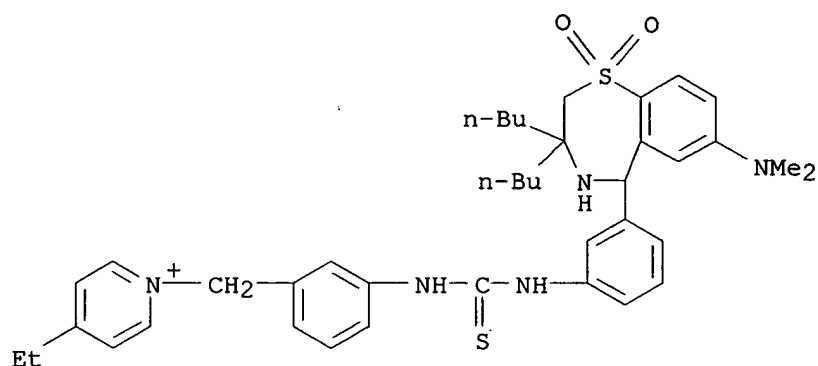
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● Br<sup>-</sup>

RN 670278-20-3 CAPLUS

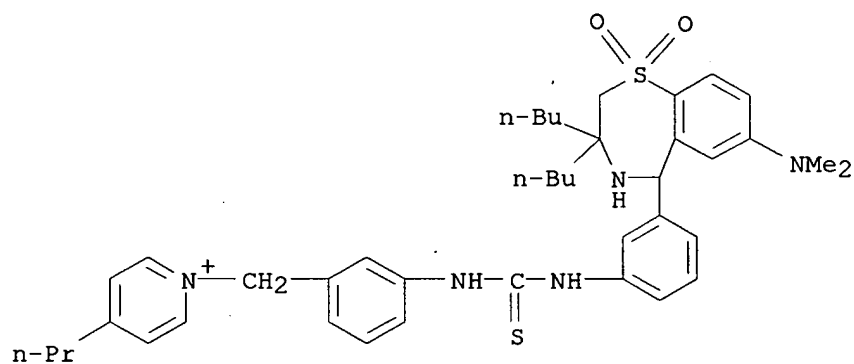
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● Br<sup>-</sup>

RN 670278-21-4 CAPLUS

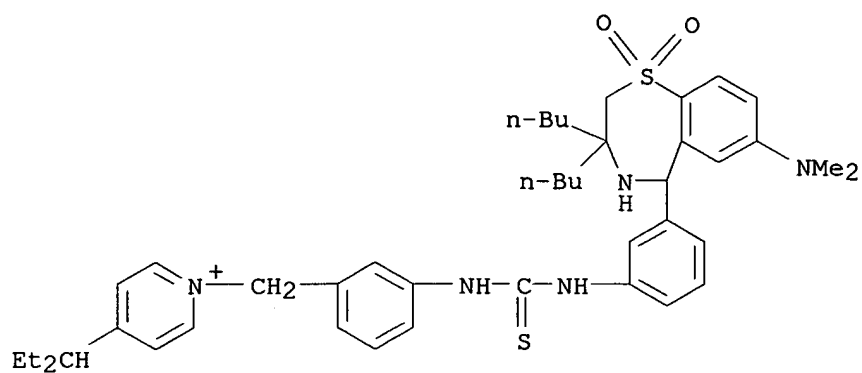
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● Br<sup>-</sup>

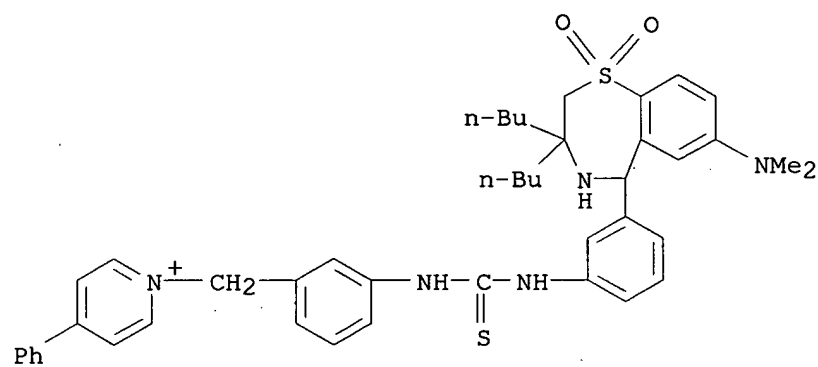
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● Br<sup>-</sup>

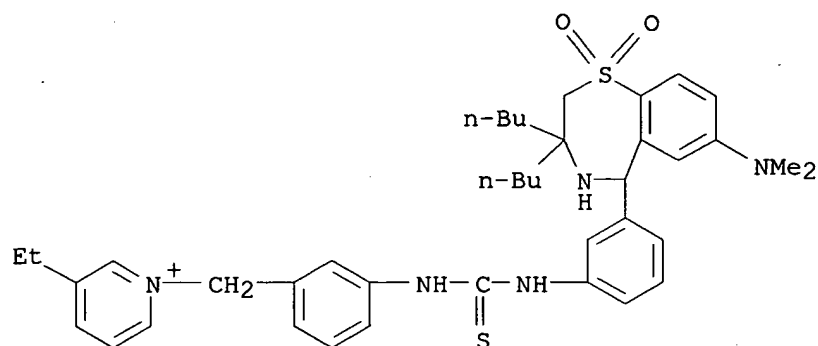
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● Br<sup>-</sup>

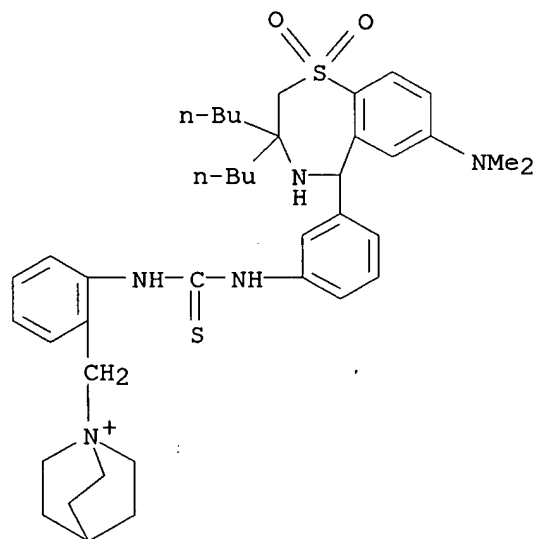
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● Br<sup>-</sup>

RN 670278-25-8 CAPLUS

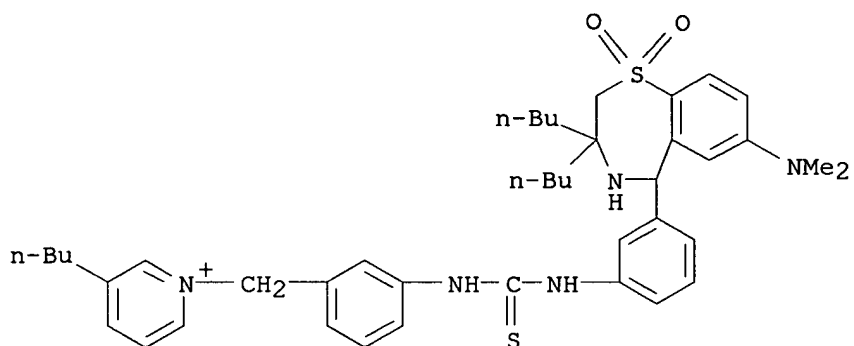
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● Br<sup>-</sup>

RN 670278-26-9 CAPLUS

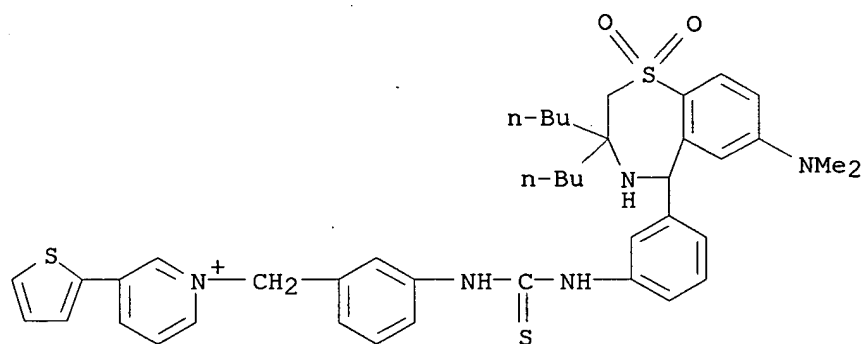
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● Br<sup>-</sup>

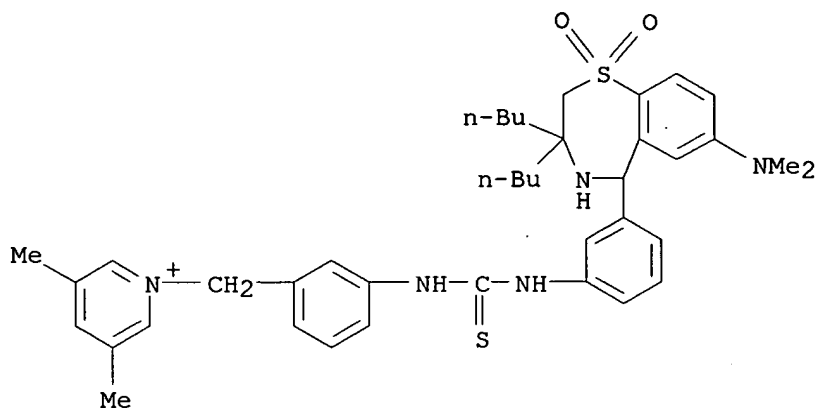
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● Br<sup>-</sup>

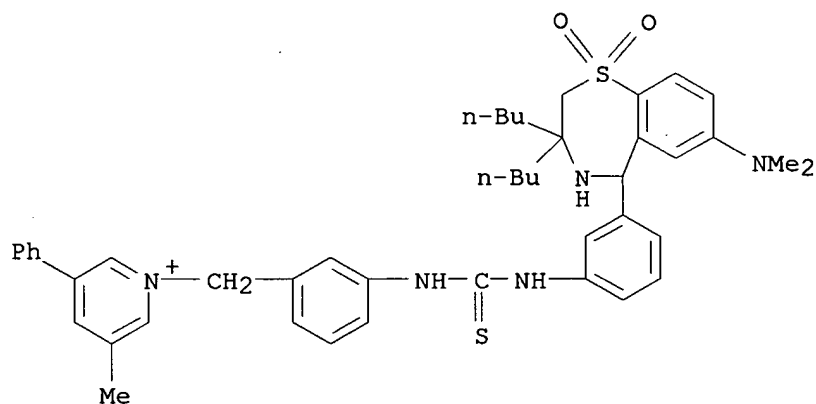
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● Br<sup>-</sup>

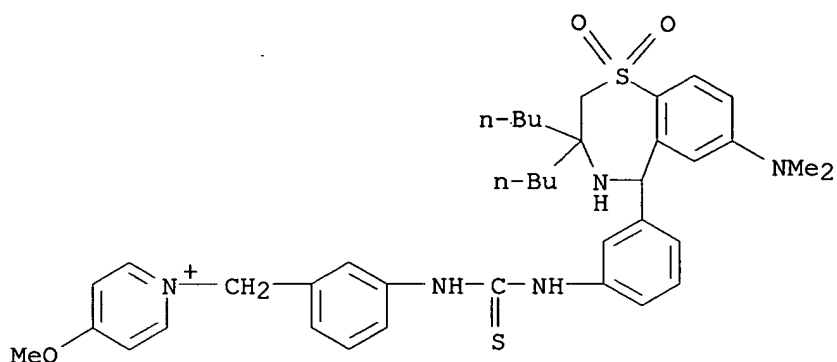
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● Br<sup>-</sup>

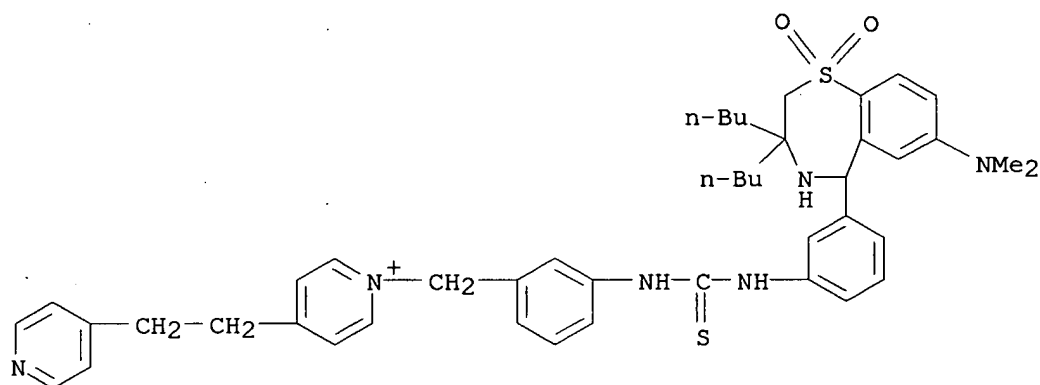
RN 670278-30-5 CAPLUS

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● Br<sup>-</sup>

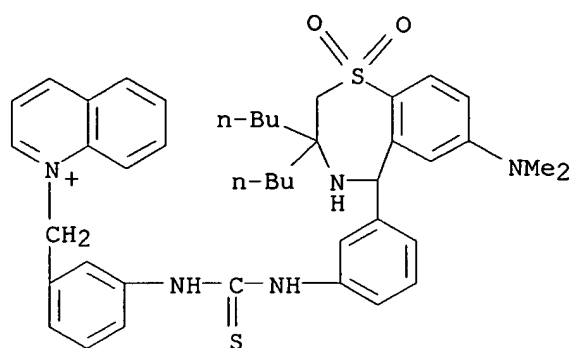
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● Br<sup>-</sup>

RN 670278-32-7 CAPLUS

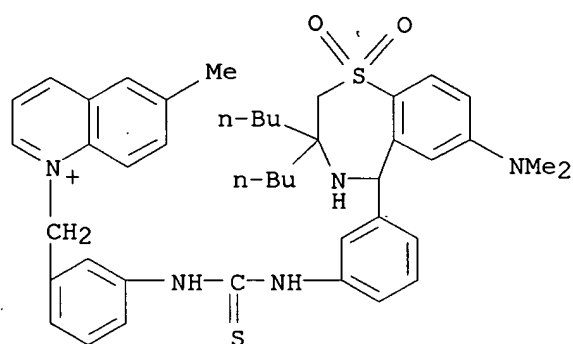
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● Br<sup>-</sup>

RN 670278-33-8 CAPLUS

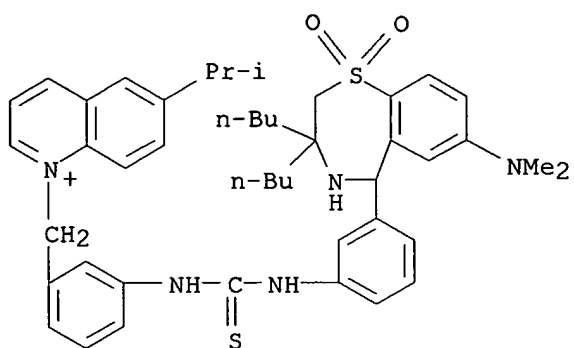
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● Br<sup>-</sup>

RN 670278-34-9 CAPLUS

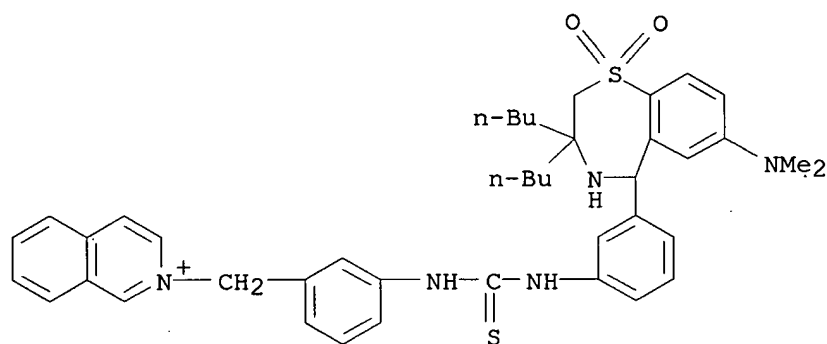
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● Br<sup>-</sup>

RN 670278-35-0 CAPLUS

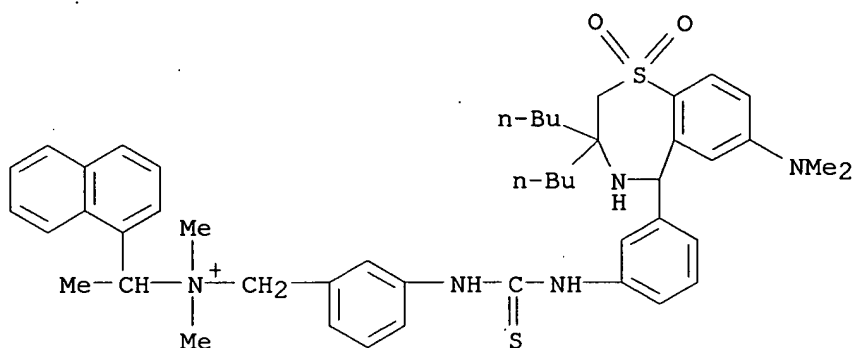
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● Br<sup>-</sup>

RN 670278-36-1 CAPLUS

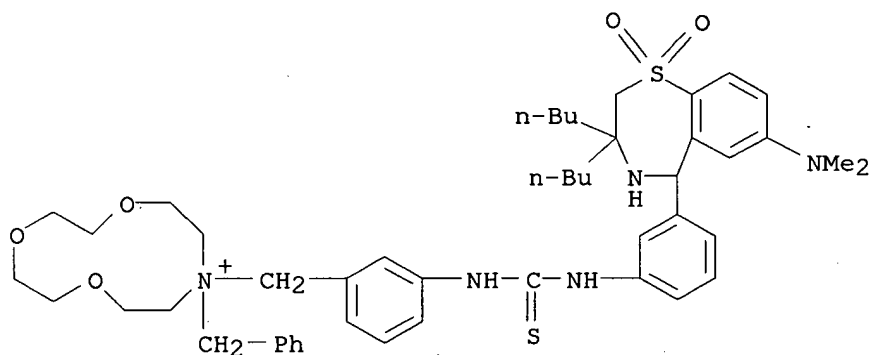
CN 1-Naphthalenemethanaminium, N-[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-N,N,α-trimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 670278-37-2 CAPLUS

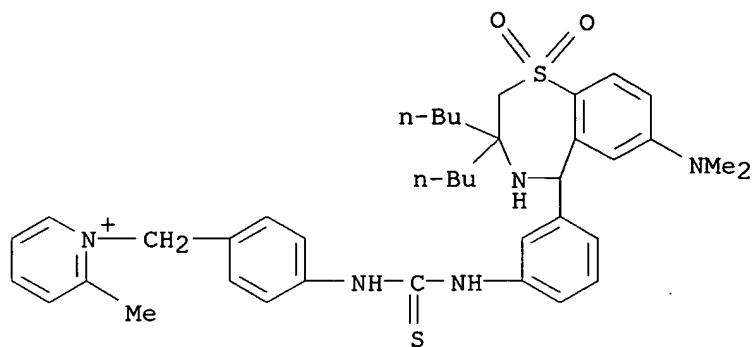
CN 1,4,7-Trioxa-10-azoniacyclododecane, 10-[[[3-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-10-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

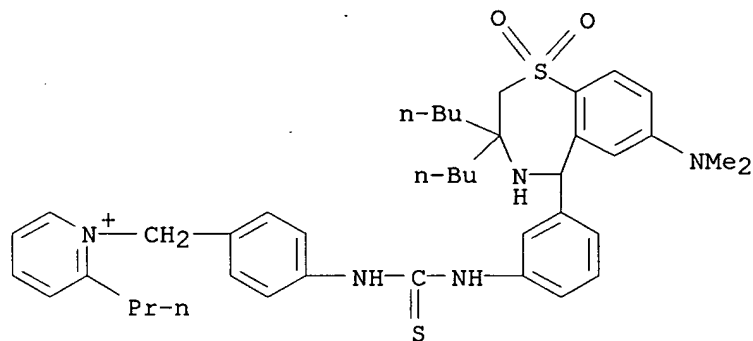
RN 670278-38-3 CAPLUS

CN    Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-2-methyl-, bromide (9CI)    (CA INDEX NAME).

● Br<sup>-</sup>

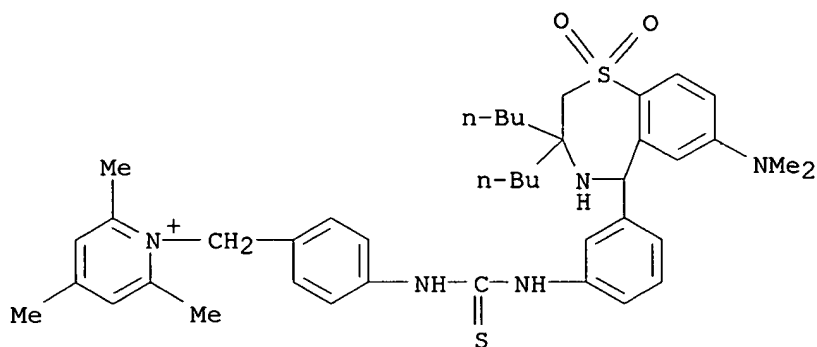
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● Br<sup>-</sup>

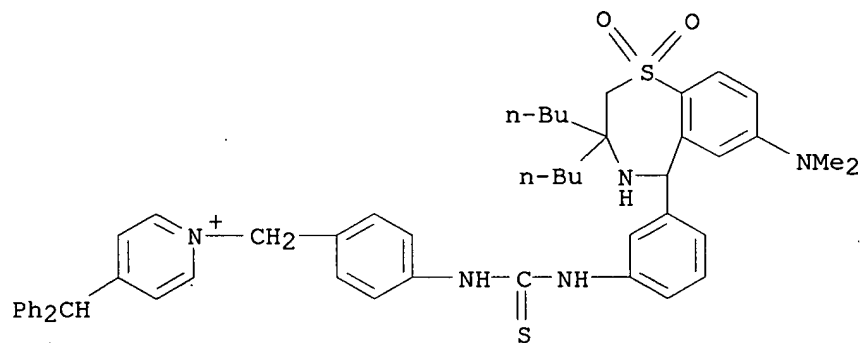
RN 670278-40-7 CAPLUS

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● Br<sup>-</sup>

RN 670278-41-8 CAPLUS

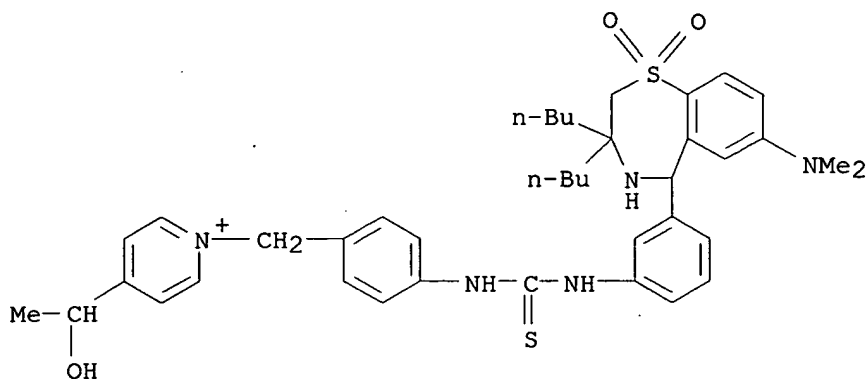
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● Br<sup>-</sup>

RN 670278-42-9 CAPLUS

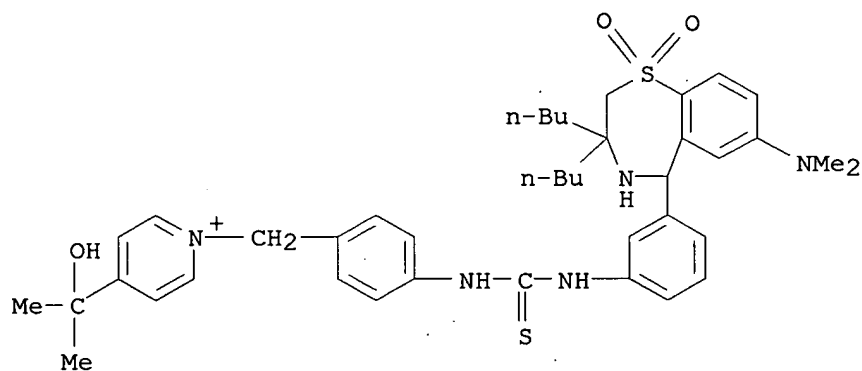
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● Br<sup>-</sup>

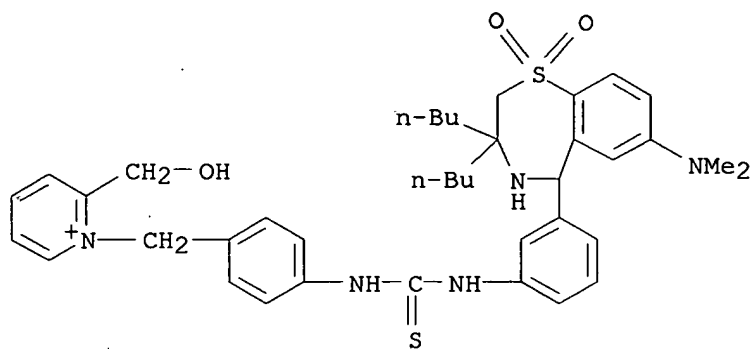
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● Br<sup>-</sup>

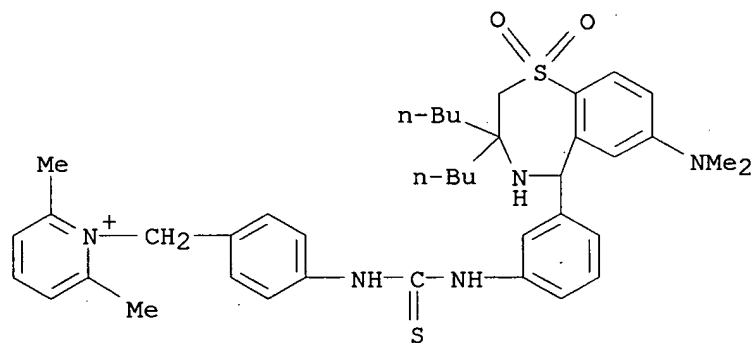
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● Br<sup>-</sup>

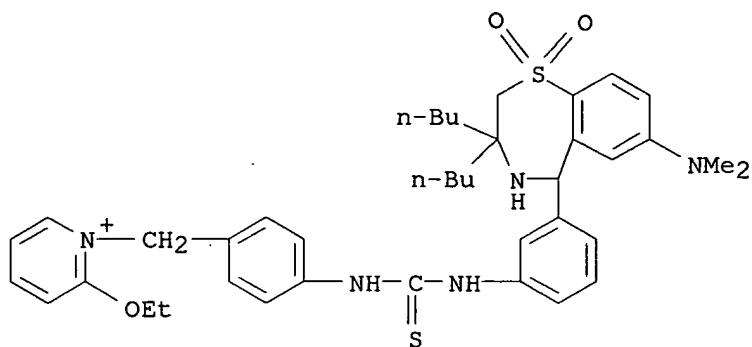
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● Br<sup>-</sup>

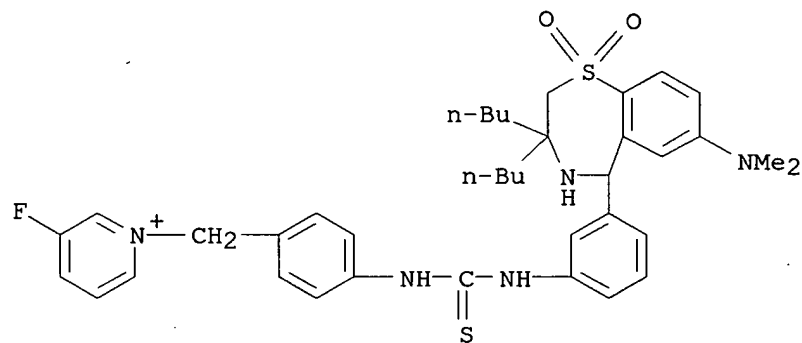
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● Br<sup>-</sup>

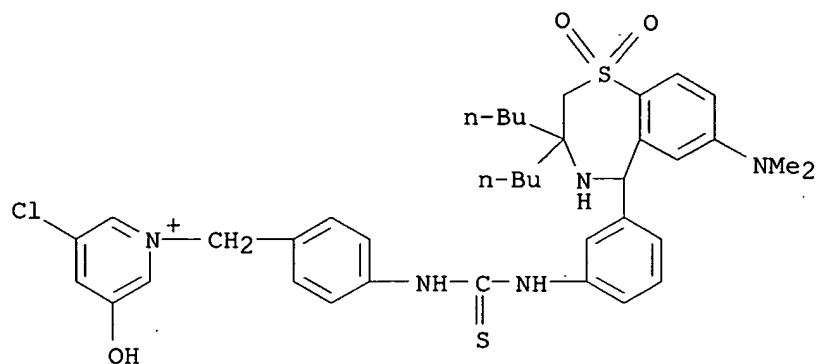
RN 670278-47-4 CAPLUS

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● Br<sup>-</sup>

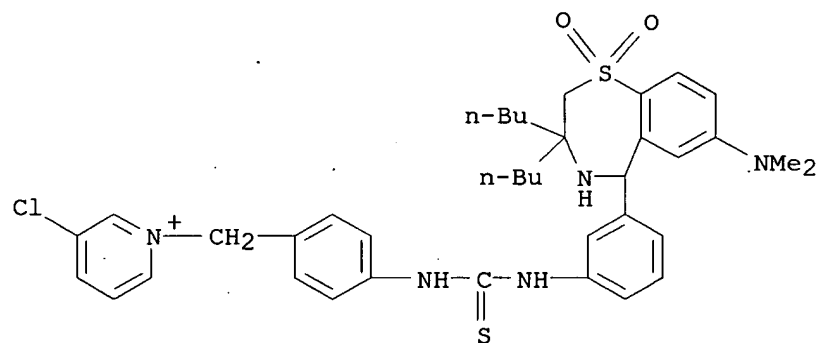
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● Br<sup>-</sup>

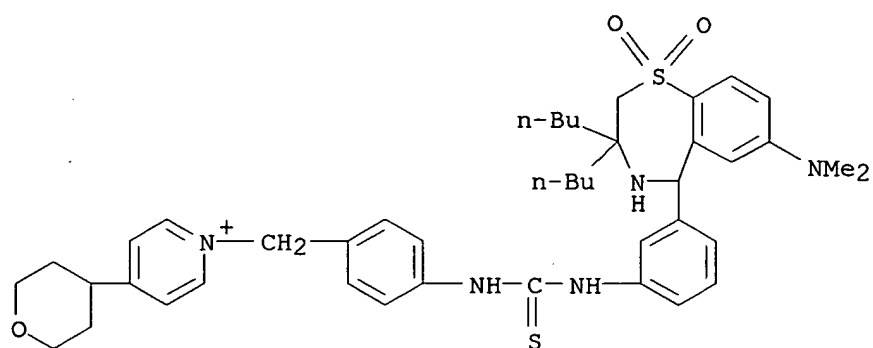
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CN Pyridinium, 3-chloro-1-[[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

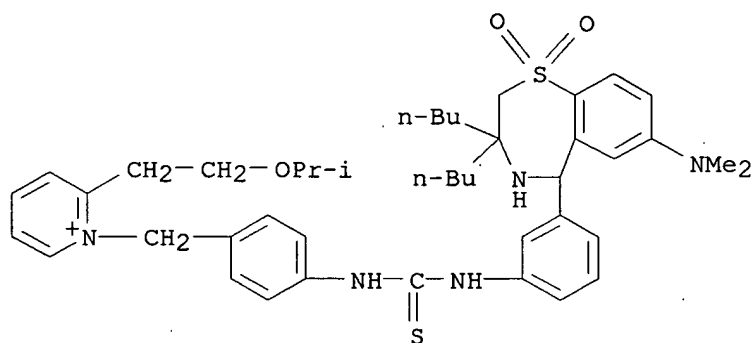
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● Br<sup>-</sup>

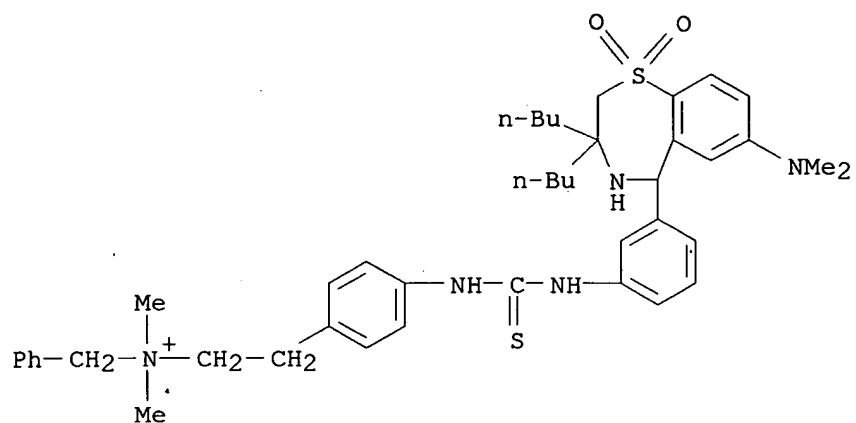
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● Br<sup>-</sup>

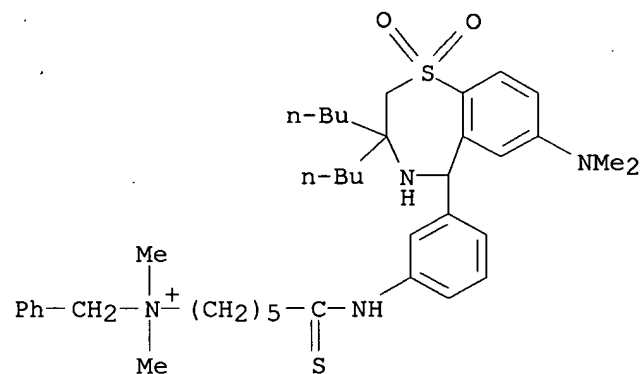
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● Br<sup>-</sup>

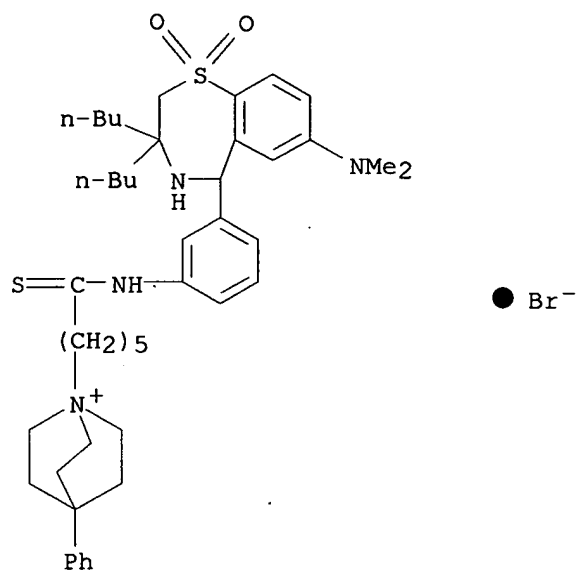
RN 670278-53-2 CAPLUS

CN Benzenemethanaminium, N-[6-[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

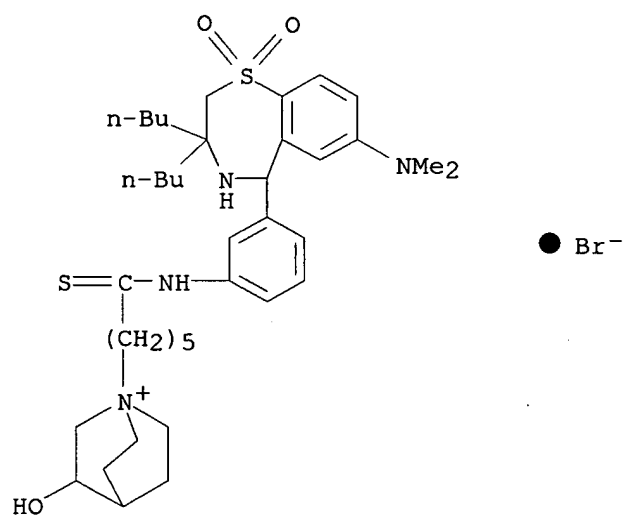
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CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-4-phenyl-, bromide (9CI) (CA INDEX NAME)



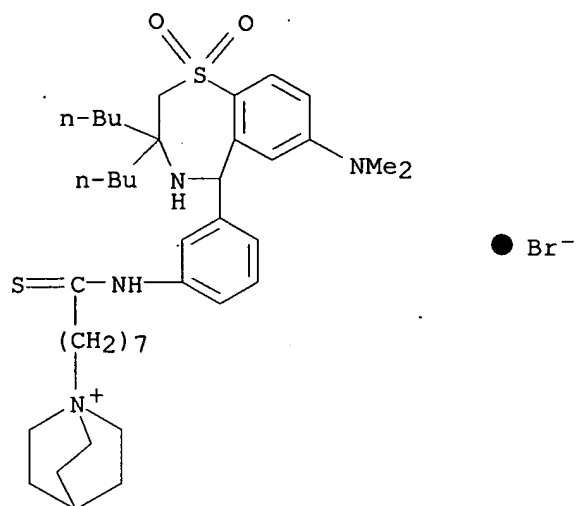
RN 670278-55-4 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-6-thioxohexyl]-3-hydroxy-, bromide (9CI) (CA INDEX NAME)



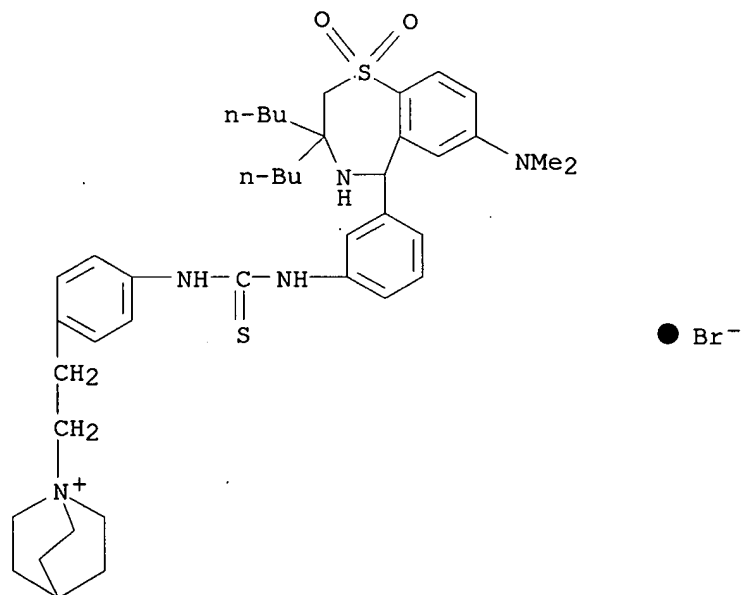
RN 670278-56-5 CAPLUS

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RN 670278-77-0 CAPLUS

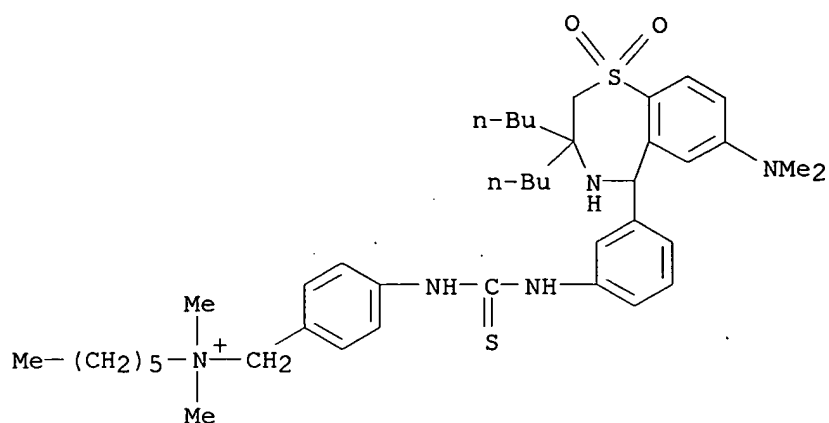
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RN 671186-85-9 CAPLUS

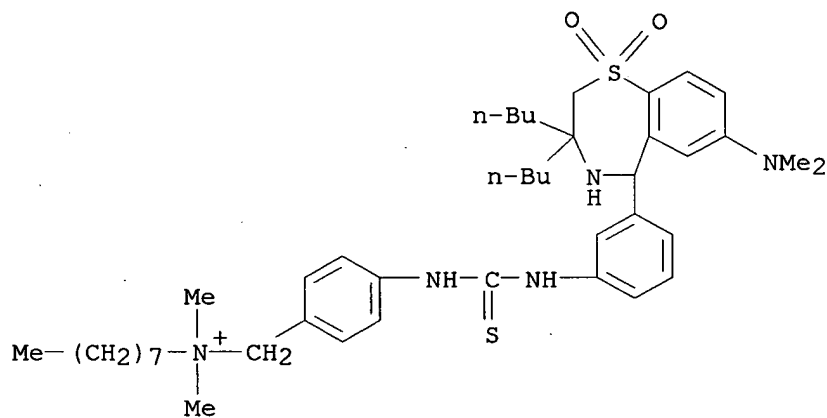
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● Br<sup>-</sup>

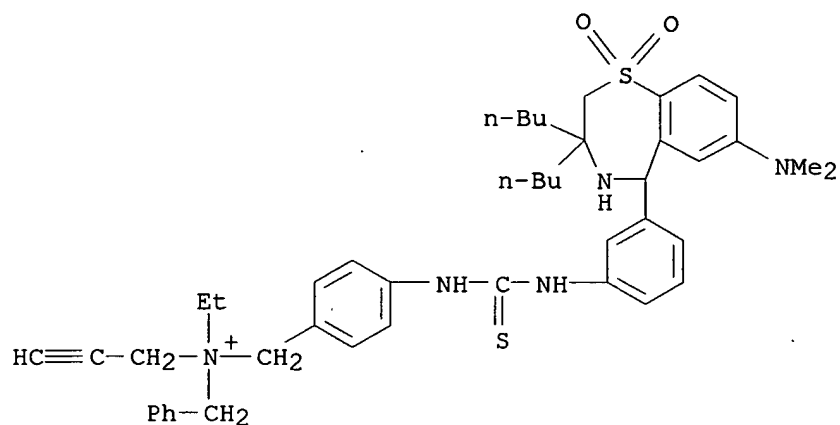
RN 671186-87-1 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-octyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

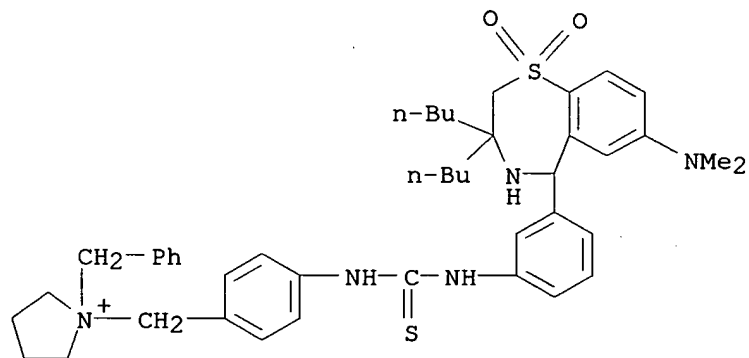
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● Br<sup>-</sup>

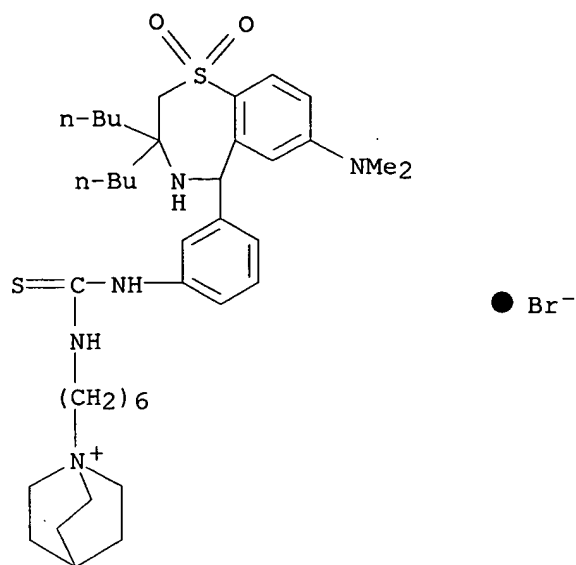
RN 671187-05-6 CAPLUS

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● Br<sup>-</sup>

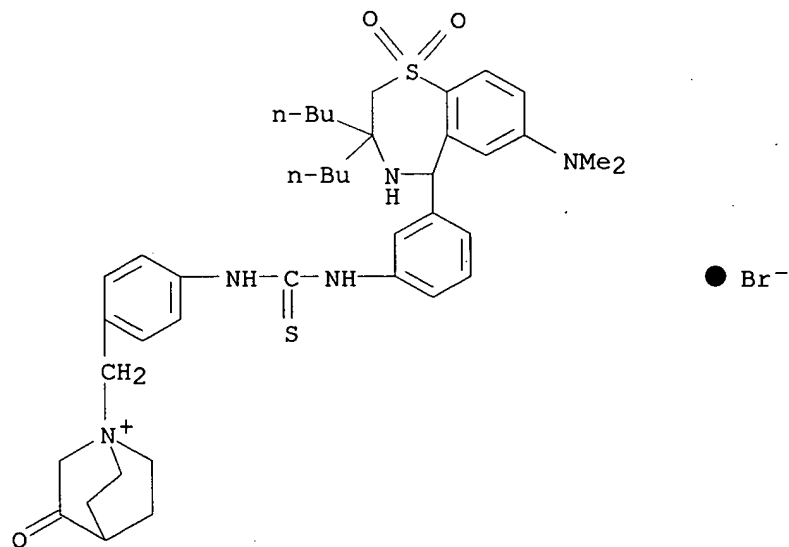
RN 671187-10-3 CAPLUS

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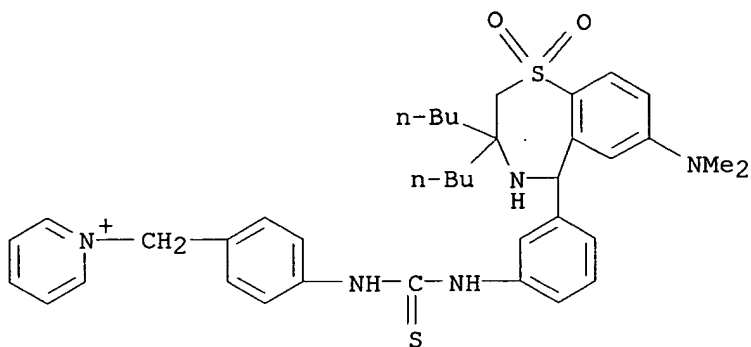
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(CA INDEX NAME)

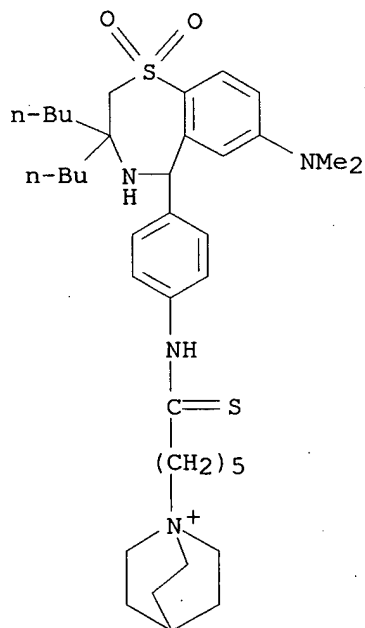


RN 671187-17-0 CAPLUS

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● Br<sup>-</sup>

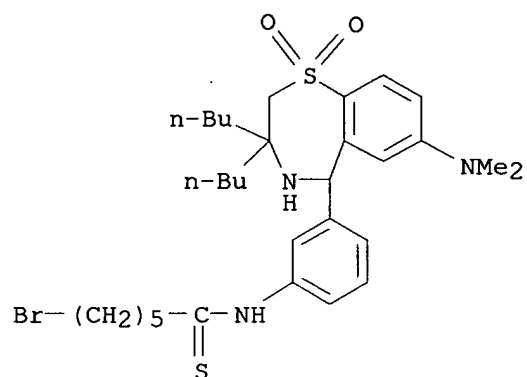
RN 671189-34-7 CAPLUS  
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● Br<sup>-</sup>

IT **670278-63-4P**, 3,3-Dibutyl-2,3,4,5-tetrahydro-7-dimethylamino-5-[3-[(6-bromothiohexanoyl)amino]phenyl]-1,4-benzothiazepine-1,1-dioxide  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of novel tetrahydro(aminophenyl)benzothiazepine dioxide quaternary ammonium compds. as inhibitors of ileal bile acid transporter and preventives or remedies for diseases)  
 RN 670278-63-4 CAPLUS  
 CN Hexanethioamide, 6-bromo-N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-

10/256,198

tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

59

THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/256,198

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

11.23

172.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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CA SUBSCRIBER PRICE

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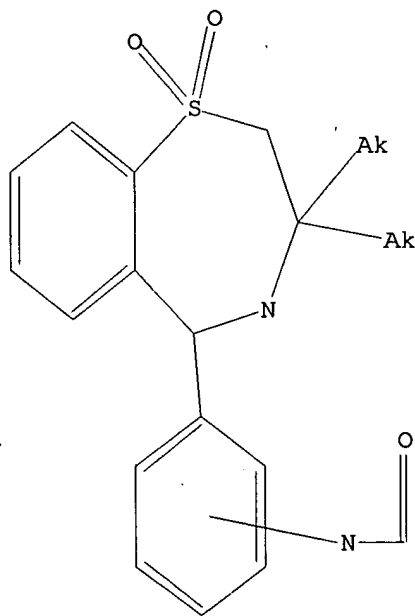
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ACCESSION NUMBER: 2005:979630 CAPLUS

DOCUMENT NUMBER: 143:286456

TITLE: Preparation of benzothiazepine and benzothiepine compounds for prevention and treatment of hyperlipemia

INVENTOR(S): Sasahara, Takehiko; Mohri, Mitsunobu; Kasahara, Kenichi

PATENT ASSIGNEE(S): Asahi Kasei Pharma Corporation, Japan

SOURCE: PCT Int. Appl., 551 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082874	A1	20050909	WO 2005-JP3686	20050225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:

JP 2004-128992

A 20040227

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Benzothiazepine or benzothiepine compds. represented by the following general formula (I) which have a thioamide bond and a quaternary ammonium substituent [R1a, R2a = C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl; ma = an integer of 0-4; Rx = halo, NO<sub>2</sub>, NH<sub>2</sub>, cyano, HO, CO<sub>2</sub>H, CONH<sub>2</sub>, SO<sub>3</sub>H, C1-5 alkylated NH<sub>2</sub>, each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl; a combination of (A1, A2, A3) = (CH<sub>2</sub>, NH, CH); (CH<sub>2</sub>, CH(OH), CH), (NH, CH(OH), CH), or (CH<sub>2</sub>, CH<sub>2</sub>, N); Y = NHC(S), NHC(S)NH, NHC(S)O; Za-(N+R5aR6aR7a)<sub>n</sub> = C2-10 alkyl or alkenyl substituted by n number of (N+R5aR6aR7a) with ≥1 CH<sub>2</sub> of Za optionally being replaced with (un)substituted phenylene or O; n = 1,2; N+R5aR6aR7a is selected from (1) R5a, R6a, R7a = each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl with ≥1 CH<sub>2</sub> optionally being replaced with phenylene, thienylene, furylene, cyclohexylene, cyclopentylene, O, S, CO<sub>2</sub>, NHCO, (un)substituted NH, or ammonium ion, (2) C4-9 mono- or bicyclic ring containing ammonium N atom with at least one of the ring C atoms being replaced with O, N, or S, and (3) (un)substituted pyridinium, quinolinium, or isoquinolinium; X- = a counter ion] are prepared. These compds. are useful as remedies and preventives for hyperlipemia, arteriosclerosis, syndrome X, and other coronary artery diseases and as cholesterol-lowering agents. They are also useful as remedies and preventives for liver disorders accompanying bile stasis, in particular, primary biliary

cirrhosis, and primary sclerotic cholangitis, and obesity, fatty liver, and fatty hepatitis. Thus, 95 mg 1-(4-isocyanatobenzyl)-1-azoniabicyclo[2.2.2]octane bromide (preparation given) was added to a solution of

116 mg 5-(3-aminophenyl)-3,3-dibutyl-7-dimethylamino-4-hydroxy-2,3,4,5-tetrahydro-1-benzothiepin-1,1-dioxide in 3 mL CHCl<sub>3</sub> and stirred at 50° for 2 h to give 190 mg -2,3,4,5-tetrahydro-1-benzothiepin-1,1-dioxide derivative (II). II at 0.3 mg/kg twice a day for 5 days lowered a total blood level of LDL and VLDL by 49% in rats on 5 day diet of a feed containing 0.5% cholesterol and 0.5% bile acid.

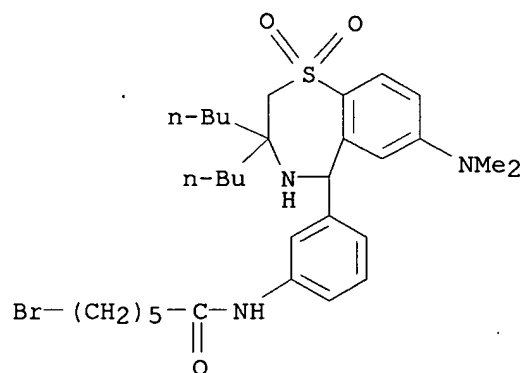
IT 670278-62-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzothiazepine and benzothiepine compds. for prevention and treatment of hyperlipemia and lowering cholesterol)

RN 670278-62-3 CAPLUS

CN Hexanamide, 6-bromo-N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

14

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



10/256,198

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:203819 CAPLUS

DOCUMENT NUMBER: 140:253584

TITLE: Preparation of novel 2,3,4,5-tetrahydro-5-(aminophenyl)-1,4-benzothiazepine-1,1-dioxide quaternary ammonium compounds as inhibitors of ileal bile acid transporter

INVENTOR(S): Sasahara, Takehiko; Mohri, Mitsunobu

PATENT ASSIGNEE(S): Asahi Kasei Pharma Corporation, Japan

SOURCE: PCT Int. Appl., 365 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

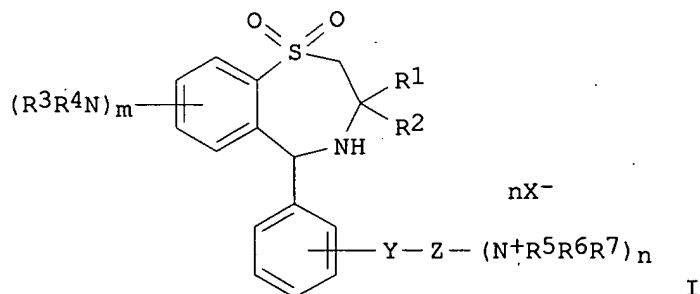
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004020421	A1	20040311	WO 2003-JP10980	20030828
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2005009805	A1	20050113	US 2003-647455	20030826
CA 2497345	AA	20040311	CA 2003-2497345	20030828
EP 1535913	A1	20050601	EP 2003-791398	20030828
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPLN. INFO.:			JP 2002-248586	A 20020828
			JP 2002-364725	A 20021217
			US 2002-407291P	P 20020903
			US 2002-434416P	P 20021219
			WO 2003-JP10980	W 20030828

OTHER SOURCE(S): MARPAT 140:253584  
GI



AB The benzothiazepine compound having a thioamide bond and a quaternary ammonium substituent as represented by the following general formula [I];

R1, R2 = C1-10 alkyl; m = 1, 2; R3, R4 = C1-5 alkyl; Y = NHC(S), NHC(S)NH, NHC(S)O; Z = C2-10 alkylene or alkenylene wherein  $\geq 1$  methylene groups in Z are optionally substituted by phenylene or O; n = 1, 2; R5, R6, R7 = each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl, etc.; or (N+R5R6R7)n = (un)substituted C4-9 mono- or bicyclo ammonium, pyridinium, quinolinium, or isoquinolinium ring, etc.] are prepared. These compds. provide drugs useful as hypocholesteremics or as preventives and remedies for hyperlipemia, arteriosclerosis, syndrome X, hepatopathy accompanying cholestasis (in particular, primary biliary cirrhosis, primary sclerosing cholangitis, etc.), obesity, fat liver, or fatty hepatitis, each containing as the active ingredient the benzothiazepine compound I inhibiting an ileal bile acid transporter.

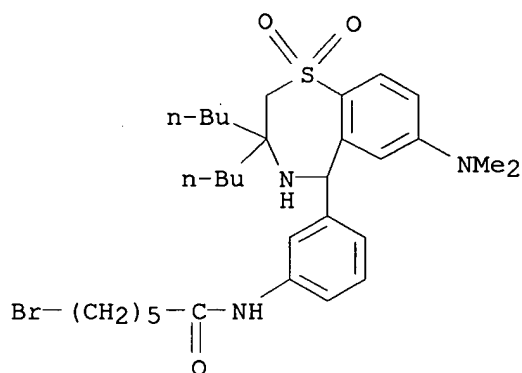
IT **670278-62-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of novel tetrahydro(aminophenyl)benzothiazepine dioxide quaternary ammonium compds. as inhibitors of ileal bile acid transporter and preventives or remedies for diseases)

RN 670278-62-3 CAPLUS

CN Hexanamide, 6-bromo-N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

59

THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/256,198

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:742082 CAPLUS

DOCUMENT NUMBER: 133:282019

TITLE: Preparation of 1,4-benzothiazepine-1,1-dioxide derivatives substituted by sugar radicals for use as medicaments

INVENTOR(S): Frick, Wendelin; Glombik, Heiner; Heuer, Hubert; Schafer, Hans-Ludwig

PATENT ASSIGNEE(S): Aventis Pharma Deutschland G.m.b.H., Germany

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

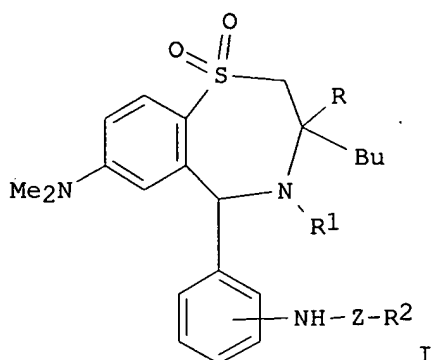
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061568	A2	20001019	WO 2000-EP2570	20000323
WO 2000061568	A3	20010419		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 19916108	C1	20010111	DE 1999-19916108	19990409
CA 2369070	AA	20001019	CA 2000-2369070	20000323
BR 2000009641	A	20020108	BR 2000-9641	20000323
EP 1169313	A2	20020109	EP 2000-920550	20000323
EP 1169313	B1	20030625		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
TR 200102910	T2	20020321	TR 2001-200102910	20000323
JP 2002541248	T2	20021203	JP 2000-610842	20000323
EE 200100495	A	20021216	EE 2001-495	20000323
AT 243686	E	20030715	AT 2000-920550	20000323
AU 765199	B2	20030911	AU 2000-41087	20000323
NZ 514656	A	20031128	NZ 2000-514656	20000323
PT 1169313	T	20031128	PT 2000-920550	20000323
ES 2200860	T3	20040316	ES 2000-920550	20000323
RU 2232155	C2	20040710	RU 2001-129936	20000323
US 6277831	B1	20010821	US 2000-545456	20000407
ZA 2001007989	A	20020607	ZA 2001-7989	20010928
NO 2001004792	A	20011002	NO 2001-4792	20011002
HR 2001000725	A1	20021231	HR 2001-725	20011008
HK 1044537	A1	20041021	HK 2002-106157	20020822
PRIORITY APPLN. INFO.:			DE 1999-19916108	A 19990409
			WO 2000-EP2570	W 20000323
OTHER SOURCE(S):	MARPAT 133:282019			
GI				



AB The invention relates to substituted 1,4-benzothiazepine-1,1-dioxide derivs. [(I); R = Me, Et, Pr, Bu; R1 = H, OH; R2 = (oligo)saccharide; Z = acyl, aminoacyl, alkyl, oxyalkyl, carbonyl-alkyl, or bond] and to the acid addition salts thereof, as drugs or prodrugs for therapeutic uses, e.g. as hypolipidemic agents. Thus, beginning with 2,5-difluorobenzophenone, 2,2-dibutylazidine, and penta-O-acetyl-D-gluconic acid, I [R = Bu; R1 = H; R2 = D-gluconoyl- C(O)CH(OH)CH(OH)CH(OH)CH(OH)CH2OH; Z = bond; NH attached at 3'-position of C6H4 (II)] was prepared in eight steps as an unsepd. mixture of benzothiazepine diastereomers. In ileum perfusion tests in Wistar rats, using 3H-taurocholic acid as test substance, II had EC50 of 0.4  $\mu$ M for clearance to the gallbladder of the test substance.

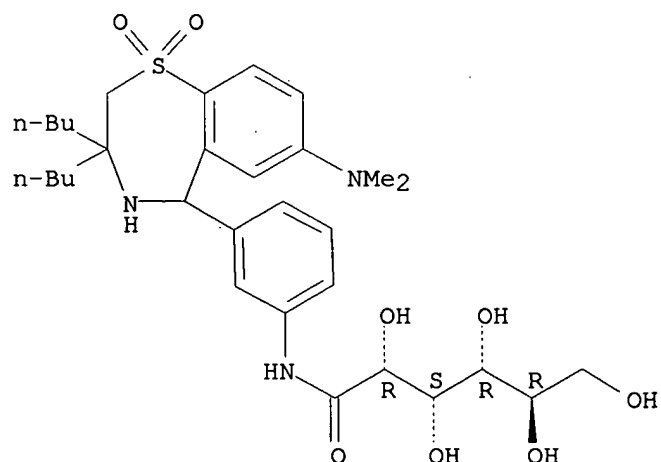
IT **300350-12-3P 300350-14-5P 300350-16-7P**  
**300350-18-9P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 1,4-benzothiazepine-1,1-dioxide derivs. substituted by sugar radicals for use as medicaments)

RN 300350-12-3 CAPLUS

CN D-Gluconamide, N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

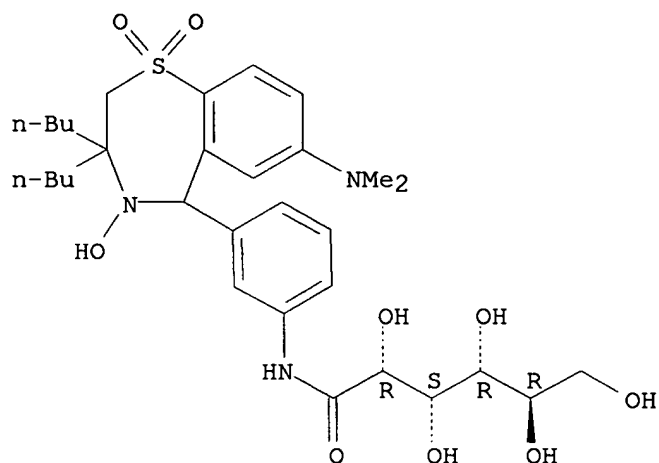


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RN 300350-14-5 CAPLUS

CN D-Gluconamide, N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

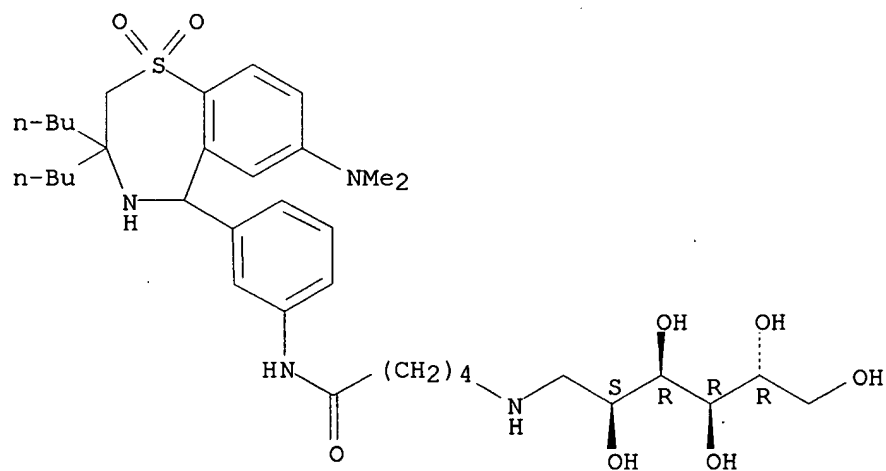
Absolute stereochemistry.



RN 300350-16-7 CAPLUS

CN D-Glucitol, 1-deoxy-1-[[5-[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-5-oxopentyl]amino]- (9CI) (CA INDEX NAME)

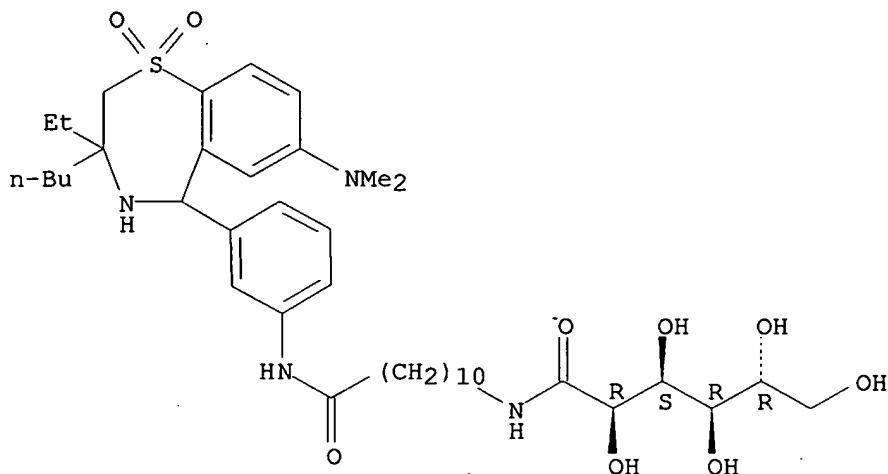
Absolute stereochemistry.



RN 300350-18-9 CAPLUS

CN D-Gluconamide, N-[11-[[3-[3-butyl-7-(dimethylamino)-3-ethyl-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-11-oxoundecyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 300350-19-0 300350-20-3 300350-21-4

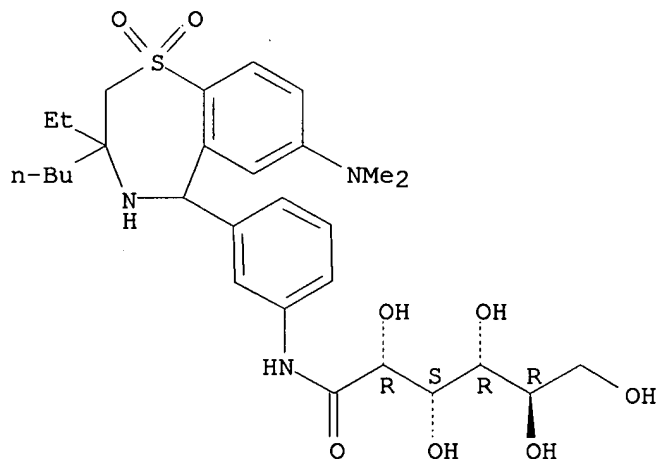
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of 1,4-benzothiazepine-1,1-dioxide derivs. substituted by sugar radicals for use as medicaments)

RN 300350-19-0 CAPLUS

CN D-Gluconamide, N-[3-[3-butyl-7-(dimethylamino)-3-ethyl-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

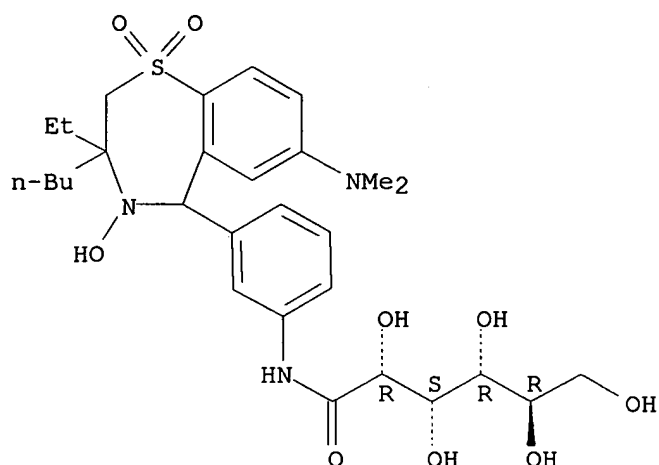
Absolute stereochemistry.



RN 300350-20-3 CAPLUS

CN D-Gluconamide, N-[3-[3-butyl-7-(dimethylamino)-3-ethyl-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

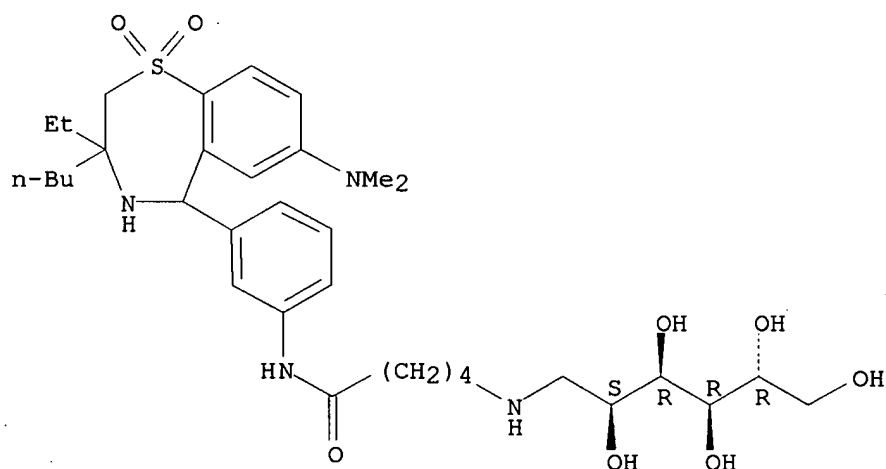
Absolute stereochemistry.



RN 300350-21-4 CAPLUS

CN D-Glucitol, 1-[[5-[[3-[3-butyl-7-(dimethylamino)-3-ethyl-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]amino]-5-oxopentyl]amino]-1-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 300350-11-2P 300350-13-4P 300350-15-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

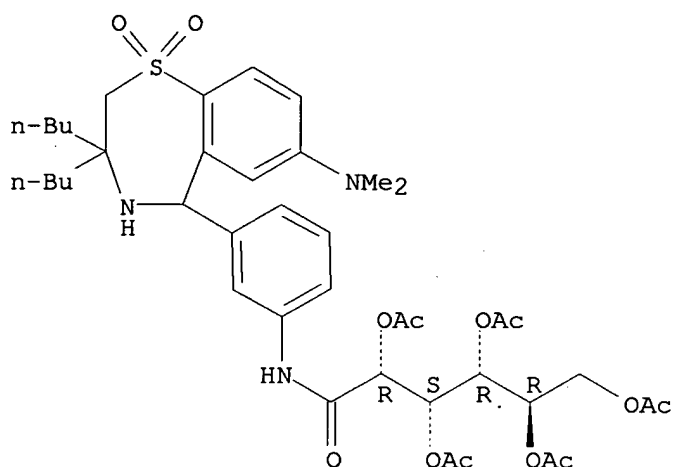
(preparation of 1,4-benzothiazepine-1,1-dioxide derivs. substituted by sugar radicals for use as medicaments)

RN 300350-11-2 CAPLUS

CN D-Gluconamide, N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]-, 2,3,4,5,6-pentaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

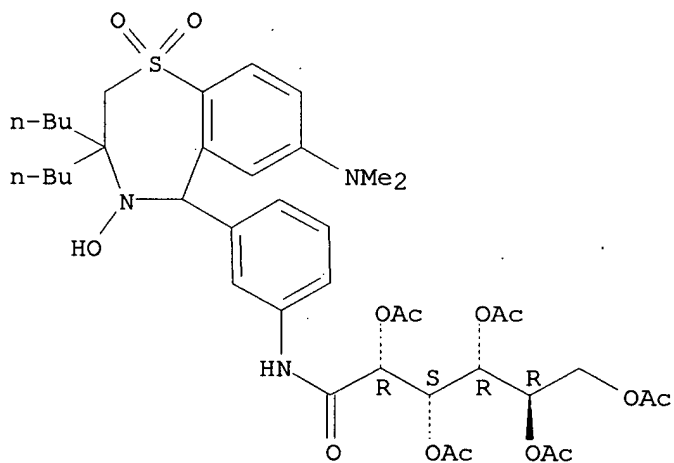
10/256,198



RN 300350-13-4 CAPLUS

CN D-Gluconamide, N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]-, 2,3,4,5,6-pentaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

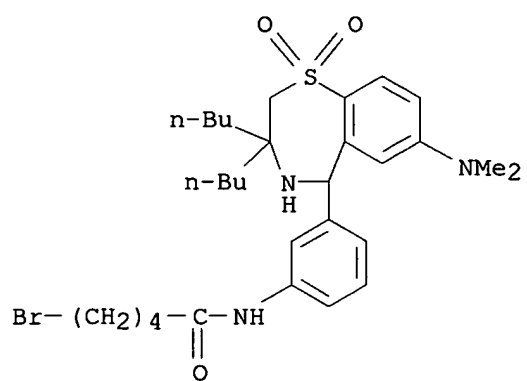


RN 300350-15-6 CAPLUS

CN Pentanamide, 5-bromo-N-[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

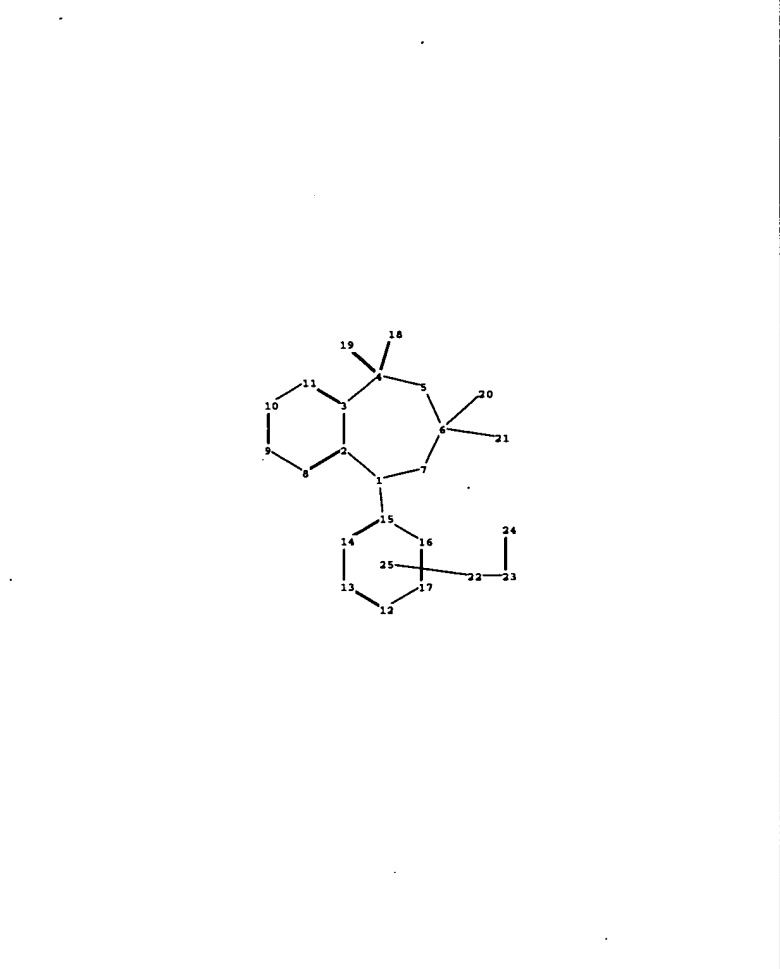


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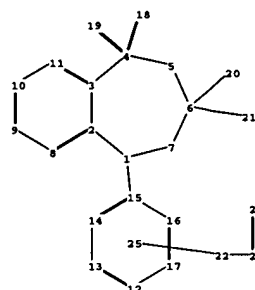
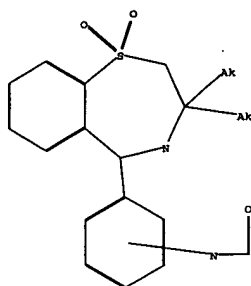


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chain bonds :
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ring bonds :
1-2 1-7 2-3 2-8 3-4 3-11 4-5 5-6 6-7 8-9 9-10 10-11 12-13 12-17 13-14 14-15
15-16 16-17
exact/norm bonds :
1-2 1-7 3-4 4-5 4-18 4-19 5-6 6-7 6-20 6-21 22-23 23-24
exact bonds :
1-15
normalized bonds :
2-3 2-8 3-11 8-9 9-10 10-11 12-13 12-17 13-14 14-15 15-16 16-17

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Match level :
 1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS
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chain nodes :

18 19 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

chain bonds :

1-15 4-18 4-19 6-20 6-21 22-23 23-24

ring bonds :

1-2 1-7 2-3 2-8 3-4 3-11 4-5 5-6 6-7 8-9 9-10 10-11 12-13 12-17 13-14 14-15  
15-16 16-17

exact/norm bonds :

1-2 1-7 3-4 4-5 4-18 4-19 5-6 6-7 6-20 6-21 22-23 23-24

exact bonds :

1-15

normalized bonds :

2-3 2-8 3-11 8-9 9-10 10-11 12-13 12-17 13-14 14-15 15-16 16-17

Match level :

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21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS